

**FLORA OF INDIA  
SERIES - 4**

# **A Census of The Indian Pteridophytes**

**R. D. DIXIT**

**BOTANICAL SURVEY OF INDIA**

**A CENSUS OF  
THE INDIAN  
PTERIDOPHYTES**



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## FOREWORD

Indian Flora is rich in diversity and the Pteridophytic Flora greatly contributes to this diversity. In the early part of the Century, taxonomic studies on flowering as well as non-flowering plants did not receive the desired attention. However, during last about 30 years, particularly with the revival of the Botanical Survey of India, intensive explorations have been made in different parts of the country by the scientists of the B. S. I. and several other institutions. These expeditions have resulted in several floristic accounts and also some taxonomic revisions.

Work on Pteridophytes was also taken up in some institutions in the country which included the Botanical Survey India, Some Institutes of C S I R, like the National Botanical Research Institute, Lucknow and some Universities.

Cytological and Cyto-taxonomic studies on Pteridophytes also received attention of several scientists. With the intensification of studies on Cryptogams in the Botanical Survey of India, a few years ago, it was felt that it would be useful to bring out a census of Indian Pteridophytes.

One of our young Pteridologist, Dr. R. D. Dixit, came forward to undertake the work. The present census is the result of Dr. Dixit's bibliographic and herbarium studies of about 10 years.

Literature on floristics and taxonomy appears in such variety of journals and at so fast a speed that it is difficult to claim total completeness in any work of this nature.

I am sure Dr. Dixit will welcome constructive suggestions to this inventory and, if considered justifiable, he will attempt a supplement of addenda, after a few years.

Meantime, it is hoped that the work will be found useful by all persons interested in the natural Flora of the region.

S. K. JAIN  
Director

Botanical Survey of India  
10, June 1984

## P R E F A C E

The Pteridophytic flora of the Indian region is very rich due to remarkable altitudinal variations ranging from sea level to the highest mountain ranges of the world, the long coastal line, hot desert in the west as well as cold desert in the north alongwith humid tropical conditions in some parts. In addition to it, adjacent countries and in many cases even far distant countries have contributed quite a large number of species to the flora of Indian subcontinent due to presence of great variety of climatic conditions, soil types and altitude, etc.

It is now more than one hundred years that Col. R.H. Beddome (1883) published "A Handbook to the ferns of British India Ceylon and the Malaya Peninsula" and its supplement in 1892 but without Azollaceae, Marsileaceae and Salviniaceae amongst the ferns and fern—allies as a whole. In spite of these lacunae the Handbook still remains the most important reference work in Indian Fern-flora even today.

The taxonomic concepts of Pteridophytes have undergone tremendous revolutionary changes during the 20th century in comparison any other group of plants resulting changes in circumscription of species, genera and families from time to time. Many new species and records have been reported during the past one hundred years. But no serious attempt has been made so far, to consolidate all available data on Indian basis except Nayar's & Kaur. "Companion to Beddome's Handbook" listing nomenclatural changes with regard to Beddome's (l.c.) names only, a System of Classification and a chapter on Thelypteroid ferns as per names given by Prof. R.E. Holttum of the Royal Botanic Gardens, Kew.

In view of absence of even a list of Pteridophytes occurring in India, the present work has been undertaken to compile all available species of Pteridophytes found in the present political boundary of India in the form "A Census of the Indian Pteridophytes."

A broad outline of the System of Classification of Pteridophyta occurring in India mainly following Pichi Sermolli (1977, 1982) with a little modifications of Ching (1978, 1978a) have been incorporated to make the System more upto date, comprehensive and convenient. Original reference citations for each genus alongwith reference of Monographic/ revisionary comprehensive work have been cited wherever available to avoid repetitions at species level. References to published list, enumerations have not been mentioned normally. Type species of each genus has been mentioned with full reference citations mainly following Pichi Sermolli

(1977). The genera are arranged alphabetically under each family and similarly species are also arranged alphabetically under each genus for the sake of convenience. At species level the valid name has been given in bold types, basionym and important synonyms if any, known in Indian flora have been given in italics. Cross references to Beddome (1863-1892) and Clarke (1880), have been provided. Distribution of each species in India and world has been given.

The present Census comprises of 67 families, 191 genera and more than 1,000 species of Pteridophytes from the Indian region, against 98 genera of ferns reported by Beddome (1883) from the British India, Ceylon and the Malay Peninsula (of which 6 are of non Indian distribution and 16 are being treated merely as synonyms at present) and 466 species of ferns from the present political boundary of India.

Every effort has been made to consult and incorporate recent nomenclature and publications made upto March, 1984. However, the responsibility of all judgements and errors is my own if any thing is omitted, misjudged in the text, I am sure the consultant will excuse me on the ground of human limitations.

The six dominant families of ferns as regards the number of genera given in brackets are Polypodiaceae (27), Thelypteridaceae (21), Athyriaceae (14), Hymenophyllaceae (10) and Hemionitidaceae (6).

It is hoped that this book providing upto date data on number, nomenclature and distribution of taxa, will be useful to those who are interested in the Pteridophytic flora of this country.

Allahabad

R. D. Dixit

Dated : 29th March, 1984

## ACKNOWLEDGEMENTS

I am deeply indebted to Dr. S.K. Jain, Director, Botanical Survey of India, Howrah for the suggestion and allotment of the problem, guidance and constant encouragement throughout the period of work. I am thankful to Dr. J.N. Vohra, Regional Botanist (Cryptogams) and members of the Cryptogamic Unit, and Dr. V.S. Agarwal, Editor of Publications, Botanical Survey of India for their help rendered during the preparation and publication of the present work. Thanks are also due to Dr. N.P. Balakrishnan, Deputy Director, Botanical Survey of India, Allahabad for the facilities. I wish to express my gratitude to Prof. R.E. Holttum of England, Prof. R.C. Ching of China, Prof. R.E.G. Pichi Sermolli of Italy and Prof. K.U. Kramer of Switzerland for sending their recent literature on the subject.

## **SYSTEM OF CLASSIFICATION OF PTERIDOPHYTA\***

**(INCLUDES INDIAN PTERIDOPHYTES ONLY)**

**Division : Pteridophyta**

**Subdivision : Lycophytina**

**Class : Lycopsidea**

**Subclass : Lycopodiidae**

**Order : Lycopodiales**

**Fam : Huperziaceae**

**Gen : Huperzia, Phlegmariurus**

**Fam : Lycopodiaceae**

**Gen : Diphasiastrum, Lycopodiastrum, Lycopodium,  
Palhinhaea**

**Subclass : Selaginellidae**

**Order : Selaginellales**

**Fam : Selaginellaceae**

**Gen : Selaginella**

**Subclass : Isöetidae**

**Order : Isöetales**

**Fam : Isöetaceae**

**Gen : Isöetes**

**Subdivision : Sphenophytina**

**Class : Equisetopsida**

**Subclass : Equisetidae**

**Order : Equisetales**

**Fam : Equisetaceae**

**Gen : Equisetum**

**Subdivision : Psilophytina**

**Class : Psilotopsida**

**Order : Psilotales**

**Family : Psilotaceae**

**Gen : Psilotum**

**Subdivision : Filicophytina**

**Class : Ophioglossopsida**

**Subclass : Ophioglossidae**

**Fam : Helminthostachyaceae**

**Gen : Helminthostachys**

**Fam : Botrychiaceae**

**Gen : Botrychium**

**\*After Pic. Ser. (1977, 1982) ; Ching (1978, 1978a)**



- Fam : Ophioglossaceae**  
 Gen : Ophioderma, Ophioglossum  
**Class : Marattiopsida**  
**Subclass : Marattiidae**  
**Order : Marattiales**  
**Fam : Marattiaceae**  
 Gen : Marattia  
**Fam : Angiopteridaceae**  
 Gen : Angiopteris  
**Fam : Christenseniaceae**  
 Gen : Christensenia  
**Class : Filicopsida**  
**Subclass : Osmundidae**  
**Order : Osmundales**  
**Fam : Osmundaceae**  
 Gen : Osmunda  
**Subclass : Plagiogyriidae**  
**Order : Plagiogyrlales**  
**Fam : Plagiogyriaceae**  
 Gen : Plagiogyria  
**Subclass : Gleicheniidae**  
**Order : Gleicheniales**  
**Fam : Gleicheniaceae**  
 Gen : Gleichenia  
**Fam : Dicranopteridaceae**  
 Gen : Dicranopteris  
**Order : Polypodiales**  
**Suborder : Polypodiineae**  
**Fam : Grammitaceae**  
 Gen : Ctenopteris, Prosaptia, Xiphopteris, Grammitis, Scleroglossum  
**Fam : Loxogrammaceae**  
 Gen : Loxogramme  
**Fam : Polypodiaceae**  
 Gen : Arthromeris, Belvisia, Christopteris, Colysis, Crypsinus, Dendroglossa, Drymotaenium, Goniophlebium, Holcosorus, Lemnaphyllum, Lepidogrammitis, Lepisorus, Leptochilus, Marginaria, Metapolypodium, Microsorium, Neocheripteris, Paraleptochilus, Phlebodium, Phymatopteris, Phymatosorus, Polypodiastrum, Polypodioides, Polypodium, Pseudodrynaria, Thylacopteris, Tricholepidium.  
**Fam : Platyceriaceae**  
 Gen : Platycerum  
**Fam : Drynariaceae**

- Gen : *Drynaria*
- Suborder : Dipteridineae
- Fam : Dipteridaceae
- Gen : *Dipteris*
- Subclass : Schizaeidae
- Order : Schizaeales
- Fam : Schizaeaceae
- Gen : *Actinostachys*, *Schizaea*
- Fam : Anemiaceae
- Gen : *Anemia*
- Fam : Lygodiaceae
- Gen : *Lygodium*
- Order : Pteridales
- Suborder : Pteridnieae
- Fam : Sinopteridaceae
- Gen : *Doryopteris*, *Mildella*, *Notholaena*,  
*Pellaea*
- Fam : Cheilanthaceae
- Gen : *Cheilanthus*
- Fam : Cryptogrammaceae
- Gen : *Cryptogramma*
- Fam : Actiniopteridaceae
- Gen : *Actiniopteris*
- Fam : Pteridaceae
- Gen : *Pteris*
- Fam : Acrostichaceae
- Gen : *Acrostichum*
- Fam : Adiantaceae
- Gen : *Adiantum*
- Fam : Hemionitidaceae
- Gen : *Annogramma*, *Coniogramme*, *Hemionitis*,  
*Idiogramma*, *Pityrogramma*, *Syngamma*
- Fam : Antrophyaceae
- Gen : *Antrophyum*
- Fam : Vittariaceae
- Gen : *Vittaria*
- Suborder : Taenitidineae
- Fam : Taenitidaceae
- Gen : *Taenitis*
- Suborder : Parkeriineae
- Fam : Parkeriaceae
- Gen : *Ceratopteris*
- Subclass : Marsileidae
- Order : Marsileales

- Fam : Marsileaceae**
- Gen : Marsilea**
- Order : Hymenophyllales**
- Fam : Hymenophyllaceae**
- Gen : Gonocormous, Hymenophyllum, Mecodium, Meringium, Microgonium, Microtrichomanes, Pleuromanens, Selenodesmium, Sphaerocionum, Vandenboschia**
- Subclass : Hymenophyllidae**
- Order : Hymenophyllopsidales**
- Fam : Hymenophyllopsidaceae**
- Gen : Cephalomanes, Crepidomanes**
- Order : Dicksoniales**
- Suborder : Dicksoniineae**
- Fam : Dicksoniaceae**
- Gen : Cibotium**
- Suborder : Cyatheineae**
- Fam : Cyatheaceae**
- Gen : Cyathea**
- Order : Dennstaedtiiales**
- Suborder : Dennstaedtiineae**
- Fam : Dennstaedtiaceae**
- Gen : Dennstaedtia, Emoditopteris, Microlepia**
- Fam : Monachosoraceae**
- Gen : Monachosorum**
- Fam : Hypolepidaceae**
- Gen : Histiopteris, Hypolepis,**
- Fam : Pteridiaceae**
- Gen : Pteridium**
- Suborder : Lindsaeineae**
- Fam : Lindsaeaceae**
- Gen : Lindsaea, Sphenomeris, Tapeinidium**
- Order : Aspidiales**
- Suborder : Thelypteridinae**
- Fam : Thelypteridaceae**
- Gen : Ampelopteris, Amphineuron, Christella, Coryphopteris, Cyclogramma, Cyclosorus, Dictyocline, Glaphyopteridopsis, Macrothelypteris, Metathelypteris, Oreopteris, Parathelypteris, Phegopteris, Pneumatopteris, Pronephrium, Pseudocyclosorus, Pseudophegopteris,**

Sphaerostephanos, Stenogramma, Thelypteris,  
Trigonospora

Suborder : Aspleniineae

Fam : Aspleniaceae

Gen : Asplenium, Ceterach, Ceterachopsis

Suborder : Aspidiineae

Fam : Onocleaceae

Gen : Onoclea

Fam : Woodsiaceae

Gen : Cheilanthopsis, Woodsia

Fam : Athyriaceae

Gen : Acystopteris, Anisocampium, Athyriopsis,  
Athyrium, Coronopteris, Cystopteris,  
Dictyodroma, Diplaziopsis, Diplazium,  
Dryoathyrium, Gymnocarpium, Kuiniwatsukia,  
Lunathyrium, Triblemma

Fam : Hypodemataceae

Gen : Hypodematium

Fam : Aspidiaceae

Gen : Acrorumohra, Ctenitis, Ctenitopsis, Cyrtomium,  
Didymochlaena, Lastreopsis,  
Pleocnemia, Pteridrys, Quericifilix, Tectaria

Fam : Peranemataceae

Gen : Acrophorus, Diacalpe, Lithostegia, Peranema

Fam : Dryopteridaceae

Gen : Arachniodes, Dryopteris, Nothoperanema,  
Polystichum

Fam : Lomariopsidaceae

Gen : Leptogramma

Fam : Bolbitidaceae

Gen : Bolbitis, Egenolfia

Fam : Elaphoglossaceae

Gen : Elaphoglossum

Suborder : Davalliineae

Fam : Nephrolepidaceae

Gen : Arthropteris, Nephrolepis

Fam : Oleandraceae

Gen : Oleandra

Fam : Davalliaceae

Gen : Araiostegia, Davallia, Humata,  
Leucostegia, Paradavallodes

Fam : Gymnogrammitidaceae

Gen : Gymnogrammitis

Order : Blechnales

**Fam : Blechnaceae**

**Gen : Blechnidium, Blechnum, Brainea  
Doodia, Woodwardia**

**Fam : Stenochlaenaceae**

**Gen : Stenochlaena**

**Subclass : Salviniidae**

**Order : Salviniiales**

**Fam : Azollaceae**

**Gen : Azolla**

**Fam : Salviniaceae**

**Gen : Salvinia**

## HUPERZIACEAE Rothm.

**Huperzia** Bernh. Schard. Journ. Bot. 1800 (2) : 126. 1801 ; Mandal & Sen, Biol. Mem. 3 (2) : 192. 1978.

Lectotype : **H. selago** (L.) Bernh. ex Schrank & Mart. Hort. Monac. 3. 1829.

**H. cancellata** (Spring) Trev. Atti. Soc. Ital. Sci. Nat. 17 : 247. 1875.  
*Lycopodium cancellatum* Spring, Mém. Acad. Sci. Belg. 24 (2) : 27. 1850.

*Distrib.* : India (Arunachal Pradesh), Bhutan.

**H. carinata** (Desv.) Trev. Atti. Soc. Ital. Sci. Nat. 17 : 247. 1875.  
*Lycopodium carinatum* Desv. Encycl. Bot. Suppl. 3 : 559. 1813.

*Distrib.* : India (Tamil Nadu, Andaman & Nicobar Islands), China, Malaya Peninsula, Malesian Islands, Philippines, Formosa, Polynesia.

**H. ceylanica** (Spring) Trev. Atti. Soc. Ital. Sci. Nat. 17 : 248. 1875.  
*Lycopodium ceylanicum* Spring, Mém. Acad. Sci. Belg. 15 (1) : 37. 1843 ; 24(2) : 16. 1850.

*Distrib.* : India (Meghalaya, Tamil Nadu), Sri Lanka, Java.

**H. cryptomerina** (Maxim.) Dixit, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981. *Lycopodium cryptomerinum* Maxim. Bull. Acad. Sci. St. Petersb. 15 : 231. 1870.

*Distrib.* : India (Arunachal Pradesh), China, Japan.

**H. fordii** (Bak.) Dixit, *comb. nov.* *Lycopodium fordii* Bak. Handb. Fern Allies 17. 1887.

*Distrib.* : India (Eastern Himalayas), China, Japan.

**H. hamiltonii** (Spring) Trev. Atti. Soc. Ital. Sci. Nat. 17 : 248. 1875.  
*Lycopodium hamiltonii* Spring, Syst. Veg. 5 : 429. 1828 ; Mém. Acad. Sci. Belg. 15 (1) : 35. 1843 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 590. 1880.

*Distrib.* : Throughout India in hilly regions, Burma, Sri Lanka, Indo-China, Malesian Islands.

**H. herteriana** (Kümm.) Sen & Sen, Fern Gaz. 11 (6) : 415. f. 1 a - j. 1978. *Lycopodium herterianum* Kümm. Magyar. Bot. Lap. 26 : 99. 1928. *Lycopodium lucidulum* auct. Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 589, t. 84. f. 1. 1880.

*Distrib.* : India (Sikkim, West Bengal, Manipur), China.

**H. niligarica** (Spring) Dixit, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981. *Lycopodium niligaricum* Spring, Bull. Acad. Sci. Belg. 15 (1) : 58. 1843.

*Distrib.* : India (Tamil Nadu, Kerala).

**H. petiolata** (Clarke) Dixit, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981. *Lycopodium hamiltonii* var. *petiolatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 590. 1880.

*Distrib.* : India (Meghalaya).

**H. pulcherrima** (Wall. ex Hook. & Grev.) Sen & Sen, Fern Gaz. 11 (6) : 419. f. 2 i - r. 1978. *Lycopodium pulcherrimum* Wall. ex Hook. & Grev., Icon. Fil. t. 58. 1831. *L. setaceum* Buch. Ham. ex D. Don. var. *subulifolium* Wall. apud Clarke, Trans. Linn. Soc. Lond. II. Bot. 1. 590. 1880.

*Distrib.* : India N W Himalayas, E. (India), Nepal, Bhutan, China.

**H. selago** (L.) Bernh. ex Schrank et Mart. Hort. Monac. 3. 1829. *Lycopodium selago* L. Sp. Pl. 2 : 1102. 1753.

*Distrib.* : India (Sikkim), Arctic and north temperate zones of both hemispheres, also New Zealand, Australia, Arctic America and mountains of Central Brazil.

**H. serrata** (Thunb.) Rothm. Feddes Rept. 54 (1) : 59. 1944. *Lycopodium serratum* Thunb. Fl. Jap. 341. t. 38. 1784.

*Distrib.* : India (West Bengal, Sikkim, Arunachal Pradesh, Assam, Meghalaya, Manipur, Tamil Nadu), Nepal, Burma, Sri Lanka, China, Japan, Malaya Peninsula, Malesian Islands, Fiji, Somoa, Sandwich Islands, Tropical America.

**H. squarrosa** (Forst.) Trev. Atti. Soc. Ital. Sci. Nat. 17 : 247. 1875. *Lycopodium squarrosium* Forst, Prod. 86. 1786 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 591. 1880.

*Distrib.* : India (West Bengal, Sikkim, Meghalaya, Assam, Kerala), Nepal, Burma, Bangladesh, Sri Lanka, Malesian Islands, Philippines, Polynesia, Seychelles, Mascareen Isles.

**H. subulifolia** (Wall. ex Hook. & Grev.) Trev. Atti. Soc. Ital. Sci. Nat. 17 : 248. 1875. *Lycopodium subulifolium* Wall. ex Hook. & Grev. Icon. Fil. t. 49. 1831.

*Distrib.* : India (West Bengal, Sikkim, Meghalaya, Uttar Pradesh), Nepal, Sri Lanka.

**H. vernicosa** (Hook. & Grev.) Trev. Atti. Soc. Ital. Sci. Nat. 17 :

248. 1875. *Lycopodium vernicosum* Hook. & Grev. in Hook. Bot. Misc. 2 : 364. 1831.

*Distrib.* : India (Tamil Nadu, Kerala), Sri Lanka.

*Phlegmariurus* (Herter) Holub, Preslia 36 (1) : 17, 21. 1964.

Type : *P. phlegmaria* (L.) Sen & Sen, Fern Gaz. 11 (6) : 421 f. 4. a - j. 1978.

*P. phlegmaria* (L.) Sen & Sen, Fern Gaz. 11 (6) : 421. f. 4 a j. 1978. *Lycopodium phlegmarium* L. Sp. Pl. 2 : 1101. 1753 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 592. 1880.

*Distrib.* : India (West Bengal, Sikkim, Assam, Arunachal Pradesh, Kerala, Andaman & Nicobar Islands) Tropics of the old world extending up to New Zealand and Australia.

*P. phyllanthum* (Hook. & Arn.) Dixit, Journ Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981. *Lycopodium phyllanthum* Hook. & Arn. Bot. Beech. Voy. 102. 1841.

*Distrib.* : India (Uttar Pradesh, Arunachal Pradesh, West Bengal, Sikkim, Assam, Manipur, Meghalaya, Kerala, Tamil Nadu), Arctic and Alpine Zones of both hemispheres ; mountains of Tropical Asia, Africa, America, Cape, Mascareen Islands, Polynesia.

#### LYCOPODIACEAE P. Beauv. ex Mirb.

*Lycopodium* L. Sp. Pl. 2 : 1101. 1753 ; Spring, Mém. Acad. Sci. Belg. 15 (1) : 9. 1843 ; 24 (2) : 5. 1850 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 590. 1880 ; Chowdhury, Trans. Nat. Inst. Sci. India 1 : 195. 1937. Mandal & Sen, Biol. Mem. 3 (2) : 192. 1978 ; Dixit, Bull. Bot. Surv. India 24 (1 4) : 178. f. 1 3. 1982.

Lectotype : *L. clavatum* L. Sp. Pl. 2 : 1101. 1753.

*L. annotinum*. L. Sp. Pl. 2 : 1103. 1753.

*Distrib.* : India (Uttar Pradesh, Sikkim, Meghalaya), Arctic Zones and mountains of North temperate zone in both the hemispheres.

*L. japonicum* Thunb. Fl. Jap. 341. 1784. *L. clavatum* of auct. Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 592. 1880.

*Distrib.* : Throughout India in the mountainous regions, Nepal, Bhutan, Burma, Sri Lanka, China, Japan, Bangladesh.

*L. veitchii* Christ, Bull. Geor. Bor. Mans. 106. 1906 ; *Lycopodium*



*annotinum sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 592. 1880 (*pro parte*).

*Distrib.* : India (Sikkim, Arunachal Pradesh), China, Japan.

**Diphasiastrum** Holub, Preslia 47 : 104. 1975 ; Sen, & Sen Fern Gaz. 11 (6) : 424. f. k n. 1978.

Type : **D. complanatum** (L.) Holub, Preslia 47 : 107. 1975.

**D. alpinum** (L.) Holub, Preslia 47 : 107. 1975. *Lycopodium alpinum* L. Sp. Pl. 2 : 1104. 1753.

*Distrib.* : India (Sikkim), Arctic Zones & mountains of the North temperate zone in both the hemispheres.

**D. complanatum** (L.) Holub, Preslia 47. 108. 1975. *Lycopodium complanatum* L. Sp. Pl. 2 : 1102. 1753 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 593. 1880. *L. veitchii sensu* Mandal & Sen, Biol. Mem. 3 (2) : 248. 1978. *Diphasium complanatum* (L.) Rothm. Feddes Repert. 54 : 584. 1944 ; Sen & Sen, Fern Gaz. 11 (6) : 424. f. 5 a - j. 1978.

*Distrib.* : India (Eastern India, Eastern Himalayas, South India), North Temperate Zones & Alpine regions of the tropics.

**D. wightianum** (Wall. ex Hook. & Grev.) Holub, Preslia 47 : 108. 1975. *Lycopodium wightianum* Wall. ex Hook. & Grev. Enum. Fil. 85. 1824.

*Distrib.* : India (Kerala, Tamil Nadu), Sri Lanka, Malay Islands.

**Lycopodiastrum** Holub ex Dixit, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981.

Type : **L. casuarinoides** (Spring) Holub ex Dixit, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981.

**L. casuarinoides** (Spring) Holub ex Dixit, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 541. 1981. *Lycopodium casuarinoides* Spring, Mém. Acad. Sci. Belg. 15 (1) : 92. 1843 ; 24 (2) : 45. 1850.

*Distrib.* : India (Assam, Meghalaya), Bhutan, Burma. China, Malaya Peninsula, Malaya Islands, Philippine Islands.

**Palhinhaea** Franco. & Vasc. in Vasc. & Franco. Bol. Soc. Broter. ser. 2. 41 : 24. 1967 ; Sen & Sen, Fern Gaz. 11 (6) : 423. 1978.

Type : **P. cernua** (L.) Franco. & Vasc. in Vasc. & Franco, Bol. Soc. Broter. ser. 2. 41 : 25. 1967.

**P. cernua** (L.) Franco. & Vasc. in Vasc. & Franco. Bol. Soc. Broter. ser. 2. 41 : 25. 1967. *Lycopodium cernuum* L. Sp. Pl. 2 : 1103. 1753 ;

Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 591. 1880.

*Distrib.* : Throughout India in mountainous regions, Tropics of both the hemispheres.

### SELAGINELLACEAE Milde

*Selaginella* P. Beauv. Prod. Fam. Aëtheog. 101. 1805 ; Spring, Mém. Acad. Sci. Belg. 24 (2) : 55. 1850 ; Alston, Proc. Natn. Inst. Sci. India 11 : 211. 1945 ; Panigr. & Dixit, Proc. Natn. Acad. Sci. India, Sect. B. 36 : 102. 1966 ; Journ. Indian Bot. Soc. 46 : 222. 1967 ; Proc. Natn. Inst. Sci. India 34 : 191. 1968.

Type : *S. selaginoides* (L.) Link, Fil. Sp. Hort. Berol. 158. 1841.

*S. adunca* A. Br. ex Hieron. in Engl. & Prantl, Nat. Pfl. 1 (4) : 674. 1902. *S. yemensis sensu* Duthie, Cat. Kumaon Pl. 232. 1866.

*Distrib.* : India (Uttar Pradesh, Himachal Pradesh).

*S. aitchisonii* Hieron. in Engl. & Prantl. Nat. Pfl. 1 (4) : 674. 1902. *S. sanguinolenta* (L.) Spring f. *aitchisonii* (Hieron.) Alston, Proc. Natn. Inst. Sci. India 11 : 215. 1945.

*Distrib.* : India (Kashmir), Afghanistan, Turkistan.

*S. biformis* A. Br. ex Kuhn, Fil. Afr. 189. 1868. (*nomen. nud.*) Kuhn, Forsch Gaz. IV, Bot. 6 : 17. 1889.

*Disirib.* : India (Assam, Meghalaya, Nagaland, Manipur), Burma, South China, Philippines across Celebes, Java, Sumatra.

*S. bisulcata* Spring, Mém. Acad. Sci. Belg. 24 (2) : 259. 1850.

*Distrib.* : India (Himachal Pradesh, West Bengal, Sikkim, Nagaland, Manipur, Meghalaya), Burma, China.

*S. blatteri* Bole & Almeida, Journ. Bomb. Nat. Hist. Soc. 74 : 320. f. 1. 1977.

*Distrib.* : India (Maharashtra).

*S. brachystachya* (Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 232. 1843. *Lycopodium brachystachyum* Hook. & Grev. in Hook. Bot. Misc 3 : 107. 1833.

*Distrib.* : India (Maharashtra), Sri Lanka.

*S. braunii* Bak. Gard. Chron. 1120. 1867.

*Distrib.* : India (Uttar Pradesh, Tamil Nadu), China, Georgia, Jamaica, Brazil.

**S. bryopteris** (L.) Bak. Journ. Bot. 22 : 376. 1884. *Lycopodium bryopteris* L. Sp. Pl. 2 : 1103. 1753. *L. imbricatum* Roxb. Hort. Beng. 75. 1814 (*nom. nud.*) ex Griff. Calc. Journ. Nat. Hist. 4 : 475. 1844 (*non* Forssk. 1775). *Selaginella imbricata* (Roxb.) J. Scott, Journ. Agr. Hort. Soc. India 1 : 260. 1868.

*Distrib.* : Throughout India in mountainous regions up to 1000 m.

**S. cataractrum** Alston, Proc. Natn. Inst. Sci. India 11 : 228. 1945.

*Distrib.* : India (Tamil Nadu, Kerala).

**S. chrysocaulos** (Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 232. 1843. *Lycopodium chrysocaulos* Hook. & Grev. in Hook. Bot. Misc. 2 : 401. 1831. *Selaginella philippina* var. *khasiensis* Bak. Journ. Bot. 22 : 298. 1884.

*Distrib.* : India (Himachal Pradesh, Uttar Pradesh, Sikkim, Arunachal Pradesh, Nagaland, Manipur, Meghalaya, Kerala), Nepal, Bhutan.

**S. chrysorrhizos** Spring, Mém. Acad. Sci. Belg. 24 (2) : 251. 1850.

*Distrib.* : India (Assam, West Bengal), Nepal, Burma, Siam, Annam, Laos.

**S. ciliaris** (Retz.) Spring, Bull. Acad. Brux. 10 : 23. 1843. *Lycopodium ciliare* Retz. Obs. 5 : 32. 1789. *Selaginella exigua* Spring, Mém. Acad. Sci. Belg. 24 (2) : 238. 1850 ; Haines, Bot. Bihar & Orissa 3 : 1276. 1924.

*Distrib.* : India (Uttar Pradesh, Bihar, West Bengal, Sikkim, Assam, Meghalaya, Tripura, Orissa, Madhya Pradesh, Kerala, Tamil Nadu, Andaman & Nicobar Islands), Burma, Sri Lanka, China, Phillipine Islands.

**S. coonoriana** Dixit, Bull. Bot. Surv. India 25 : t. 1. f. 1. text. fig. 1A - G. 1983.

*Distrib.* : India (Tamil Nadu).

**S. decipiens** Warb, Monsunia 1 : 127. 1900.

*Distrib.* : India (Arunachal Pradesh, Assam, Mizoram, Meghalaya) Malay Peninsula, Indo China, Tonkin.

**S. delicatula** (Desv. ex Poir.) Alston, Journ. Bot. 70 : 282. 1932.

*Lycopodium delicatulum* Desv. ex Poir. in Lam. Encycl. Suppl. 3 : 554. 1814. *Selaginella crassicaule* (Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 232. 1843.

*Distrib.* : India (Sikkim, Assam, Tripura, Maharashtra, Kerala, Tamil Nadu, Goa, Andaman & Nicobar Islands) China (eastwards) to Philippine Islands, Moluccas, Borneo, Siam, Annam, Cambodia, Tonkin, Cochin China.

*S. frondosa* Warb, Monsunia 1 : 105. 117. 1900. *S. superba* Alston, Journ. Bot. 70 : 63. f. A F. 1932.

*Distrib.* : India (Andaman & Nicobar Islands) Malaya, Malesian Islands, Indo China, Tonkin, Annam.

*S. fulcrata* (Buch. - Ham. ex D. Don) Spring. Bull. Acad. Sci. Brux 10 : 231. 1843. *Lycopodium fulcratum* Buch. Ham. ex D. Don, Prod. Fl. Nepal 17. 1825.

*Distrib.* : India (Bihar, Orissa, Maharashtra), Nepal.

*S. ganguliana* Dixit, Bull. Bot. Surv. India 26 : t. 1. f. 1. A I. 1984.

*Distrib.* : India (Kerala).

*S. helferi* Warb, Monsunia 1 : 107, 121. 1900. *S. plana sensu* Burkill, Rec. Bot. Surv. India 10 : 228. 1925 (*non*. Hieron. 1901). *S. willdenovii sensu* Burkill, Rec. Bot. Surv. India 10 : 228. 1925 (*non* Bak. 1867).

*Distrib.* : India (Arunachal Pradesh, Assam, Nagaland, Meghalaya, Andaman & Nicobar Islands), Burma, China, Indo China.

*S. hookeri* Bak. Journ. Bot. 23 : 21. 1886.

*Distrib.* : India (Assam, Arunachal Pradesh, Nagaland, Manipur, Meghalaya), Burma, Malay Peninsula, Indo China, Annam.

*S. indica* (Milde) Trayon, Anal. Miss. Bot. Gard. 42 : 52. f. 27. 1955. *S. rupestris* f. *indica* Milde, Fil. Eur. Atalant. 262. 1867. *S. longipila* of authors, as Alston, Proc. Natn. Inst. Sci. India 11 : 214. 1945 ; Tagawa in Hara's Univ. Mus. Univ. Tokyo Bull. no. 2. 200. 1971.

*Distrib.* : India (Uttar Pradesh, Bihar, West Bengal, Arunachal Pradesh, Meghalaya, Orissa, Madhya Pradesh, Tamil Nadu), Nepal, Bhutan.

*S. inequalifolia* (Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 145. 1843. *Lycopodium inequalifolium* Hook. & Grev. in Hook. Bot. Misc. 2 : 391. 1831.

*Distrib.* : India (Assam, Kerala, Tamil Nadu), Burma.

**S. integerrima** (Hook. & Grev.) Spring, Bull. Acad. Brux 10 : 1843. *Lycopodium integerrimum* Hook. & Grev. in Hook. Bot. Misc. 2 : 396. 1831. *Selaginella ornithopodioides sensu* Trimen, Journ. Linn. Soc. 24 : 152. 1887 ; Alston, Proc. Natn. Inst. Sci. India 11 : 222. 1945.

*Distrib.* : India (Tamil Nadu), Sri Lanka.

**S. intermedia** (Bl.) Spring, Bull. Acad. Brux. 10 : 144. 1843. *Lycopodium intermedium* Bl. Enum. Pl. Jav. 2 : 269. 1830. *L. furcatum* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 475. 1844.

*Distrib.* : India (Kerala, Tamil Nadu) Malay Peninsula, Java, Sumatra, Burma, Borneo, Celebes, Annam, Siam.

**S. involvens** (Sw.) Spring, Bull. Acad. Brux. 10 : 136. 1843 ; emend. Hieron. Hedw. 50 : 2. 1911. *Lycopodium involvens* Sw. Syn. Fil. 182. 1806. *Selaginella caulescens* (Wall. ex Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 137. 1843.

*Distrib.* : India (almost throughout India in mountainous regions except northern part), Nepal, Bhutan, Burma, Sri Lanka, Indo China, Malesian Islands.

**S. jainii** Dixit, Bull. Bot. Surv. India 25 : t. 1. f. 2. text. fig. 2 A H. 1983.

*Distrib.* : India (Madhya Pradesh).

**S. kashmiriana** (Milde) Dixit, nom. nov. *S. borealis* f. *indica* Milde, Fil. Eur. 267. 1867. *S. Sanguinolenta* f. *indica* (Milde) Alston, Proc. Natn. Inst. Sci. India 11 : 215. 1945.

*Distrib.* : India (North-West) Himalayas). Afghanistan.

**S. megaphylla** Bak. Journ. Bot. 23 : 180. 1885. *S. atrovirides sensu* Burkill, Rec. Bot. Surv. India 10 : 228. 1925 (*non* Spring, 1838).

*Distrib.* : India (Arunachal Pradesh, Assam), Bhutan, Burma.

**S. miniatospora** (Dalz.) Bak. Journ. Bot. 23 : 249. 1885. *Lycopodium miniatosporum* Dalz. in Hook. Journ. Bot. 4 : 114. 1852.

*Distrib.* : India (Maharashtra, Goa).

**S. monospora** Spring, Mém. Acad. Sci. Belg. 24 (2) : 135. 1850.

*Distrib.* : India (West Bengal, Sikkim, Arunachal Pradesh, Meghalaya, Assam, Manipur, Kerala, Tamil Nadu), Burma, China, Indo-China, Tonkin, Annam.

**S. nairii** Dixit, Bull. Bot. Surv. India 26 : t. II. f. 2 A I. 1984.

*Distrib.* : India (Orissa).

**S. nepalensis** Spring, Bull. Acad. Brux. 10 : 234. 1843. *S. pallida* (Hook. & Grev.) Spring, Bull. Acad. Brux, 10 : 234. 1843. *Lycopodium pallidum* Hook. & Grev. Hook. in Bot. Misc. II p. 389. 1831.

*Distrib.* : India (Arunachal Pradesh, Manipur), Nepal.

**S. ornata** (Hook & Grev.) Spring, Bull. Acad. Brux. 10 : 232. 1843. *Lycopodium ornatum* Hook. & Grev. in Hook. Bot. Misc. 3 : 108. 1833.

*Distrib.* : India (Arunachal Pradesh, Meghalaya), Malesian Islands.

**S. pallidissima** Spring, Bull. Acad. Brux. 10 : 231. 1843. *S. integer rima sensu* Strachey in Gaz. North West Prov. 66. 1882 (*non* Spring, 1850).

*Distrib.* : India (Uttar Pradesh, Himachal Pradesh, Arunachal Pradesh).

**S. panchghaniana** Dixit, Bull. Bot. Surv. India 25 : t. 1. f. 3. text fig. 3 A H. 1983.

*Distrib.* : India (Maharashtra).

**S. panigrahi** Dixit, Bull. Bot. Surv. India 25 : t. I. f. 4. text fig. 4 A H. 1983.

*Distrib.* : India (Madhya Pradesh).

**S. pennata** (D. Don) Spring, Bull. Acad. Brux 10 : 232. 1843. *Lycopodium pennatum* D. Don, Prod. Fl. Nepal 18. 1825.

*Distrib.* : India (Arunachal Pradesh, Assam, Meghalaya), Burma, Siam.

**S. pentagona** Spring. Mém. Acad. Sci. Belg. 24 (2) : 150. 1850.

*Distrib.* : India (Arunachal Pradesh, Maghalaya, Assam).

**S. picta** A. Br. ex Bak. Journ. Bot. 23 : 19. 1885.

*Distrib.* : India (Arunachal Pradesh, Assam, Manipur, Nagaland), Burma, Indo China, Laos.

**S. picta** A. Br. ex Bak. f. *viridis* Alston, Proc. Natn. Inst. Sci. India 11 : 223. 1945.

*Distrib.* : India (Assam).

**S. plana** (Desv. ex Poir.) Hieron. in Engl. & Prantl. Nat. pfl. 1 (4) : 703. 1902. *Lycopodium planum* Desv. ex Poir. in Lam. Encycl. Suppl. 3 : 554. 1814.

*Distrib.* : India (West Bengal as escape, usually cultivated in the gardens) ; cultivated as pot plant throughout the world in tropics.

**S. praetermissa** Alston, Journ. Bot. 70 : 65. 1932.

*Distrib.* : India (Arunachal Pradesh), Sri Lanka.

**S. proniflora** (Lam.) Bak. Journ. Bot. 22 : 156. 1885. *Lycopodium proniflorum* Lam. Encycl. 3 : 652. 1789. *Selaginella dalzelli* Bak. Journ. Bot. 23. 249 : 1885.

*Distrib.* : India (Maharashtra, Karnataka), Sri Lanka, Malay region to North and East Australia.

**S. pubescens** (Wall. ex Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 225. 1843. *Lycopodium pubescens* Wall. ex Hook. & Grev. in Hook. Bot. Misc. 2 : 383. 1831.

*Distrib.* : India (Assam), Siam, Indo China.

**S. pulvinata** (Hook. & Grev.) Maxim. Mém. Acad. Imp. Sci. Petersb. 9 : 335. 1859. *Lycopodium pulvinatum* Hook. & Grev. in Hook. Bot. Misc. 2 : 381. 1831. *Selaginella tamariscina* (P. Beauv.) Spring var. *pulvinata* (Hook. & Grev.) Alston, Bull. Fan Mem. Inst. Biol. 5 : 271. 1934.

*Distrib.* : India (Kumaon), Burma, China.

**S. radicata** (Hook. & Grov.) Spring, Mém. Acad. Sci. Bégl. 24 (2) : 114. 1850. *Lycopodium radicum* Hook. & Grev. in Hook. Bot. Misc. 3 : 397. 1831.

*Distrib.* : India (Arunachal Pradesh, Tamil Nadu).

**S. rajasthanensis** Gena, Bharadwaja & Yadava, Amer. Fern Journ. 69 (4) : 119. 1979.

*Distrib.* : India (Rajasthan).

**S. repanda** (Desv. & Poir.) Spring, Gaud. Voy. Bonite Bot. 1 : 329. 1846. *Lycopodium repandum* Desv. & Poir. in Lamarck, Encycl. Suppl. 3 : 558. 1814. *S. implexa* J. Scott, Journ. Agr. Hort. Soc. India N. S. 1 (2) : 262. 1868.

*Distrib.* : India (Uttar Pradesh, Madhya Pradesh, Andhra Pradesh, Karnataka, Tamil Nadu), Nepal, Burma, China, Philippine Islands, Java, Sumatra, Tonkin, Annam, Laos, Cambodia, Cochin China, Siam.

**S. reticulata** (Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 233. 1843. *Lycopodium reticulatum* Hook. & Grev. in Hook. Bot. Misc. 2 : 402. 1831.

*Distrib.* : India (Arunachal Pradesh, Meghalaya), Burma.

**S. semicordata** (Wall. ex Hook. & Grev.) Spring, Mart. Fl. Bras. 1 (2) : 122. 1840. *Lycopodium semicordatum* Wall. ex Hook. & Grev. in Hook. Bot. Misc. 2 : 396. 1831.

*Distrib.* : India (Sikkim, Arunachal Pradesh, Assam, Tripura, Bihar), Burma, Bangladesh, Malaya and Malay Islands.

**S. subdiaphana** (Wall. ex Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 232. 1843. *Lycopodium subdiaphanum* Wall. ex Hook. & Grev. in Hook. Bot. Misc. 2 : 401. 1831.

*Distrib.* : India (Himachal Pradesh, Punjab, Uttar Pradesh, Meghalaya, Nagaland), Nepal.

**S. tenera** (Hook. & Grev.) Spring, Bull. Acad. Brux. 10 : 232. 1843. *Lycopodium tenerum* Hook. & Grev. in Hook. Bot. Misc. 2 : 400. 1831.

*Distrib.* : India (Tamil Nadu, Karnataka, Kerala).

**S. tenuifolia** Spring, Mém. Acad. Sci. Belg. 24 (2) : 253. 1850.

*Distrib.* : India (Arunachal Pradesh, West Bengal) Burma, Laos, Siam.

**S. uncinata** (Desv. ex Poir.) Spring, Bull. Acad. Brux. 10 : 141. 1843. *Lycopodium uncinatum* Desv. ex Poir. in Lam. Encycl. Suppl. 3 : 558. 1813.

*Distrib.* : India (West Bengal), China, usually cultivated as pot plant in the tropics.

**S. vaginata** Spring, Mém. Acad. Sci. Belg. 24 (2) : 87. 1850. *S. imbricata* J. Scott, Journ. Agr. Hort. Soc. India (N. S.) 1 : 260. 1868 (excl. syn. Roxb. 1844).

*Distrib.* : Throughout India in mountainous regions up to 2000m Burma, China.

**S. wallichii** (Hook. & Grev.) Spring, Mart. Fl. Bras. 1 (2) : 124. 1840. *Lycopodium wallichii* Hook. & Grev. in Hook. Bot. Misc. 2 : 284. 1831.

*Distrib.* : India (Arunachal Pradesh, Assam, Nagaland, Manipur, Meghalaya), Burma, Malaya Peninsula, Malay Islands, Cambodia, Laos, Tonkin.

**S. wattii** Bak. Handb. Fern Allies 109. 1887.

*Distrib.* : India (Manipur), Burma.



**S. wightii** Hieron. Hedw. 39 : 319. 1900.

*Distrib.* : India (Tamil Nadu), Sri Lanka, Eastern Africa.

**S. willdenovii** (Desv. ex Poir) Bak. Gard. Chron. 783. 950. 1867.  
*Lycopodium willdenovii* Desv. ex Poir. in Lam. Encycl. Suppl. 3 : 540, 552. 1814.

*Distrib.* : India (Arunachal Pradesh, Assam, Himalayas) Burma, Malay Peninula, Malesian Islands.

### ISÖETACEAE Reichenb.

**Isöetes** L. Sp. Pl. 2 : 1100. 1753 ; Pant & Srivastava, Proc. Natn. Inst. Sci. India 28 B (3) : 242. 1962 ; Panigr. Biol. Mem. 6 (2) : 129. 1981.

Type : **I. locustris** L. Sp. Pl. 2 : 1100. 1753.

**I. bilaspurensis** Panigr. Biol. Mem. 6 (2) : 135. f. 1 - 10. 1981.

*Distrib.* : India (Madhya Pradesh).

**I. coromandelina** L. f. Suppl. Pl. Syst. veg. ed. II : 447. 1781.  
subsp. **coromandelina**.

*Distrib.* : India (Tamil Nadu, Kerala, Karnataka, Maharashtra, Gujarat, Madhya Pradesh, Uttar Pradesh, Bihar, Orissa and West Bengal).

**I. coromandelina** subsp. **brachyglossa** (A. Braun) Panigr. Biol. Mem. 6 (2) : 131. 1981. *I. brachyglossa* A. Braun, Verh. Bot. ver. Brandenb 4 : 328. 1862.

*Distrib.* : India (West Bengal).

**I. dixitii** Shende, Journ. Univ. Bombay 14 : 50. 1945.

*Distrib.* : India (Maharashtra).

**I. indica** Pant & Srivastava, Proc. Natn. Inst. Sci. India 28 B (3) : 246. t. XIV, f. 16 25, t. XV f. 30 35, t. XIV f. 30-40 text - fig. 4 A - D, 5 A - H, 7 A - M, 12. 1962. *I. mirzapurensis* Panigr. & Dixit, Proc. Indian Sci. Congr. pt. III, Abstract, Botany 243. 1965.

*Distrib.* : India (Uttar Pradesh, Madhya Pradesh, Tamil Nadu).

**I. panchananii** Pant & Srivastava, Proc. Natn. Inst. Sci. India 28 B (3) : 282 t. XIII, f. 1 4. f. XVI t. 41. text - fig. 1. 2 A I. 1962.

*Distrib.* : India (Madhya Pradesh, Maharashtra).

**I. pantii** Goswami & Arya, Journ. Indian Bot. Soc. 49 : 30. 1970.

*Distrib.* : India (Madhya Pradesh).

**I. sahyadriensis** Mahabale, Curr. Sci. 7 (2) : 62. f. 1. 1938.

*Distrib.* : India (Maharashtra, Tamil Nadu).

**I. sampathkumarnii** L. N. Rao, Curr. Sci. 13 : 286. f. 1 - 3. 1944.

*Distrib.* : India (Karnataka, Andhra Pradesh).

**I. unilocularis** J. E. Smith in Rees, Cyclopaedia 19 : 150. 1819, *pro parte* includo type et descr. excludo spec. labelled *Isöetes indica* Koenig. *I. coromandelina sensu* Roxb. ex Griff. Calc. Journ. Nat. Hist 4 : 470. 1844.

### EQUISETACEAE L. C. Richard ex De Candolle

**Equisetum** L. Sp. Pl. 2 : 1050. 1753 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 594. 1880 ; Hauke, Nova Hedw. 8 : 1. 1963 ; Page, Fern Gaz. 11 (i) : 29. 1974 ; Hauke, Nova Hedw. 30 : 385. 1978.

Type : **E. arvense** L. Sp. Pl. 2 : 1050. 1753.

**E. arvense** L. Sp. Pl. 2 : 1050. 1753.

*Distrib.* : India (Himalayas), throughout Canada, America except S. E. part, Europe, Asia South to Turkey, Iran, Nepal, China, Korea, Japan.

**E. diffusum** D. Don, Prod. Fl. Nepal. 19. 1825.

*Distrib.* : India (Himalayan mountains from Simla to Tibet, Sikkim, Assam, Meghalaya), Nepal, Bhutan, Burma, China.

**E. giganteum** L. Sp. Pl. ed. II. 2 : 1517. 1763.

*Distrib.* : India (Kashmir), Cuba, Jamaica, Hispaniola, Central & S. America.

**E. hymale** L. Sp. Pl. 2 : 1062. 1753.

*Distrib.* : India (Kumaon, Kashmir ?), Iceland, Europe (except Spain) Algeria, Asia, Russia, China.

**E. palustre** L. Sp. Pl. 2 : 1061. 1753.

*Distrib.* : India (Kashmir) N. America, South to New York, Michigan, Illinois, Minnesota, N. Dakota, Montana, Idaho, California, Eurais, South to Mediterranean, Greece, Turkey, Tibet, China, Japan.

**E. ramossisimum** Desf. Fl. Atlant. 2 : 398. 1800. subsp. **ramossisimum**.

*Distrib.* : North India and tropics of the world.

**E. ramosisimum** Desf. subsp. **debile** (Roxb. ex Vauch.) Hauke. Amer. Fern Journ. 52 : 33. 1962. *E. debile* Roxb. ex Vauch. Mon. Preles 387. 1821.

*Distrib.* : India (Himalayas) Nepal, Burma, S. China, Formosa, Hainan, Indo China, Philippines, Indonesia, New Guinea, New Hebrides, New Caledonia, Fiji.

### PSILOTACEAE Kanitz

**Psilotum** Sw. Schrad. Journ. Bot. 1800 (2) : 8, 109. 1801. Thothathri, Banerjee, Hazra & Pal, Bull. Bot. Surv. India 12 (1 4) : 280. f. 1 - 3. 1970.

Type : **P. nudum** (L.) P. Beauv. Prod. Fam. Aéthog. 112. 1805.

**P. complanatum** Sw. Syn. Fil. 188, 415. t. IV. f. 5. 1806.

*Distrib.* : India (Nicobar Islands) Malay Peninsula, Malesian Islands, South Australia, Hawaii, Fiji Islands, Mexico and South America.

**P. nudum** (L.) P. Beauv. Prod. Fam. Aétheog. 112. 1805. *Lycopodium nudum* L. Sp. Pl. 2 : 1100. 1753. *Psilotum triquetrum* Sw. Schrad. Journ. Bot. 1800. (2) : 109. 1801.

*Distrib.* : Throughout India in hilly regions, Burma, Malaysia.

### HELMINTHOSTACHYACEAE Ching

**Helminthostachys** Kaulf. Enum. Fil. 103. 1822 ; Clausen, Mem. Torrey Bot. Club. 19 (2) : 108. 1938 ; Panigr. & Dixit, Proc. Natn. Inst. Sci. India 35 B (3) : 245. 1969.

Type : **H. zeylanica** (L.) Hook. Gen. Fil. t. 47. 1840.

**H. zeylanica** (L.) Hook. Gen. Fil. t. 47. 1840 ; Bedd. Handb. Ferns Brit. India 467. t. 292. 1883 ; Suppl. 109. 1892. *Osmunda zeylanica* L. Sp. Pl. 2 : 1063. 1753.

*Distrib.* : India (Bengal plains to Assam, Himalayas, Uttar Pradesh, South India) Sri Lanka, Malay Peninsula, China, Japan, Philippines, Solomon Islands, New Caledonia, New Guinea, Australia.

### BOTRYCHIACEAE Nakai

**Botrychium** Sw. Schrad. Journ. Bot. 1800. (2) : 8, 110. 1801 ; Clausen, Mem. Torrey Bot. Club 16 (2) : 60. 1938 ; Panigr. & Dixit, Proc. Natn. Inst. Sci. India 35 B (3) : 237. 1969.

Lectotype : **B. lunaria** (L.) Sw. Schrad. Journ. Bot. 1800 (2) : 110. 1801.

**B. daucifolium** Wall. ex Hook. & Grev. Icon. Fil. t. 161. 1829 ; Bedd. Handb. Ferns. Brit. India 469. t. 294. 1883.

*Distrib.* : Throughout mountainous regions of India up to 2400 m., Burma, China, Sri Lanka, Malesian Islands, Philippines, Fiji.

**B. daucifolium** Wall. ex Hook. & Grev. var. **parvum** v. Ald. v. Ros. in Bull. Jard. Bot. Buit. 1 : 3. 1911.

*Distrib.* : India (Himalayas), Java.

**B. lanuginosum** Wall. ex Hook. & Grev. Icon. Fil. 1. t. 79. 1831. var. **lanuginosum**. **B. virginianum** (L.) Sw. var. **lanuginosum** (Wall. ex Hook. & Grev.) Bedd. Handb. Ferns Brit. India 471. t. 295. 1883 ; Suppl. 110. 1892.

*Distrib.* : Throughout India in mountainous regions, Nepal, Sri Lanka, Sumatra, Java, Philippines, China.

**B. lanuginosum** Wall. ex Hook. & Grev. var. **nepalense** (Nishida) Nair & Dixit, Journ. Bomb. Nat. Hist. Soc. 78 (3) : 447. 1981. *Japanobotrychium lanuginosum* (wall. ex Hook. & Grev.) Nishida ex Tagawa var. **nepalense** Nishida, Journ. Jap. Bot. 41 : 319. 1966.

*Distrib.* : India (Himalayas).

**B. lunaria** (L.) Sw. Schrad. Journ. Bot. 1800 (2) : 110. 1801 ; Bedd. Handb. Ferns Brit. India 469. f. 293. 1883 ; Suppl. 110. 1892. var. **lunaria**. *Osmunda lunaria* L. Sp. Pl. 2 : 1064. 1753.

*Distrib.* : India (N. W. Himalayas, Sikkim, E. Himalayas, South India) Europe, Afghanistan, United States, Greenland, Japan, Patagonia, New Zealand, Australia and Tasmania.

**B. lunaria** (L.) Sw. var. *onondagense* (Underw.) House, Bull. N. Y. State Mus. nos. 243 244, p. 47. 1923. *B. onondagense* Underw. Bull. Torrey Bot. Club 30 : 47. 1903.

*Distrib.* : India (N. W. Himalayas), Tibet, China.

**B. multifidum** (Gmel.) Rupr. Beitr. Zur. Pflanz. des Russ. Reich. 11 : 40. 1859. ssp. *multifidum*. *Osmunda multifida* Gmel. Nov. Comment. Acad. Petrop. 12 : 517. 1768.

*Distrib.* : India (Sikkim), Northern Europe, China (Yunnan), North America, British Columbia.

**B. ternatum** (Thunb.) Sw. Schrad. Journ. Fur di Botanik 2 : 111. 1800 ; Bedd. Handb. Ferns. Brit. India Suppl. 110. 1892. *Osmunda ternata* Thunb. Fl. Jap. 329. t. 32. 1784.

*Distrib.* : India (North West to Eastern Himalayas), Japan. Korea, China.

**B. virginianum** (L.) Sw. Schrad. Journ. Fur di Botanik 2 : 111. 1800. ssp. *virginianum*. *Osmunda virginiana* L. Sp. Pl. 2 : 1064. 1753.

*Distrib.* : India (North West and Eastern India) China, Japan, Europe and North America.

#### OPHIOGLOSSACEAE (R. Br.) Agardh

**Ophioderma** (Bl.) Endl. Gen. Pl. 66. 1836.

Type : *O. pendula* (L.) Presl, Suppl. Tent. Pterid. 56. 1845.

*O. pendula* (L.) Presl., Suppl. Tent. Pterid. 56. 1845. f. *pendulum* *Ophioglossum pendulum* L. Sp. Pl. ed. II. 2 : 1518. 1763 ; Bedd. Handb. Ferns Brit. India 465. t. 291. 1883 ; Suppl. 109. 1892.

*Distrib.* : India (Assam, Andaman & Nicobar Islands), Old World tropics in Madagascar, Sri Lanka, Malay Peninsula, Formosa, Philippines, Sumatra, Java, Borneo, Moluccas, New Guinea, Caroline Islands, Australia, New Hebrides, Fiji, Samoa, Tahiti and Hawaiian Islands.

**Ophioglossum** L. Sp. Pl. 2 : 1062. 1753 ; Clausen, Mem. Torrey Bot. Club 19 (2) : 161. 1938 ; Chakravarty, Bull. Bot. Soc. Bengal 5 : 1. 1951 ; Mahabale, Bull. Bot. Surv. India 4 : 71. 1962 ; Panigr. & Dixit, Proc. Natn. Inst. Sci. India 35 B (3) : 230. 1969.

Lectotype : *O. vulgatum* L. Sp. Pl. 2 : 1062. 1753.

**O. costatum** R. Br. Prod. Fl. Nov. Holl. 163. 1810. *O. pedunculatum* Desv. Mag. Ges. Nat. Fr. Berlin 5 : 306. 1811. *O. fibrosum* Schum, Beskr. Guin. Pl. 452. 1827 ; Bedd. Handb. Ferns Brit. India 465. t. 289. 1883 ; Suppl. 109. 1892. *O. brevipes* Bedd. Ferns South. India 23. t. 72. 1863. *O. bulbosum* Bedd. Ferns Brit. India Suppl. 28. 1876.

*Distrib.* : India (North West to Eastern Himalayas, Madhya Pradesh, West Bengal, Maharashtra, South India), Africa, Comores Archipelago, Madagascar, Sri Lanka, Sumatra to East Australia and New Zealand.

**O. gramineum** Willd. Nov. Act. Acad. Erf. 2 : 18 t. 1. f. 1. 1802 ; Bedd. Handb. Ferns Brit. India Suppl. 108. 1892. var. **gramineum**.

*Distrib.* : India (Uttar Pradesh, Madhya Pradesh, South India), pantropical.

**O. gramineum** var. **majus** (v. Ald. v. Ros.) Wieff. Blumea 12 (2) : 324. f. 2 b, t. 3. 1964.

*Distrib.* : India (Tripura), Philippines, New Guinea.

**O. lusitanicum** L. Sp. Pl. 2 : 1063. 1753. ssp. **lusitanicum**.

*Distrib.* : India (Madhya Pradesh, Tamil Nadu) Iceland, France, Portugal, Italy, Azores, Madeira, Algeria, Afghanistan, Asia.

**O. nudicaule** L. f. Suppl. Syst. t. 443. 1781 ; Bedd. Handb. Ferns Brit. India 464. t. 288. 1883 ; Suppl. 109. 1892. *O. parvifolium sensu* Bedd. Ferns South. India 23. t. 71. 1863.

*Distrib.* : Pantropic.

**O. nudicaule** var. **macrorrhizum** (Kunze) Clausen, Mem. Torrey Bot. Club 19 (2) : 150. 1938. *O. macrorrhizum* Kunze, Farnkr. 1 : 57. t. 29. f. 1. 1840.

*Distrib.* : India (Madhya Pradesh, Gujarat, West Bengal, Uttar Pradesh, Tamil Nadu), China, Thailand, Malay Peninsula, Sumatra, Java, Lesser Sunda Island, Philippines, New Guinea, New Caledonia.

**O. petiolatum** Hook. Exot. Fl. 1 : t. 56. 1823.

*Distrib.* : India (Uttar Pradesh, Madhya Pradesh), Central Florida, Trinidad, West Indies, Mexico, America, Africa, Sri Lanka, Siam, China, Japan, Philippines, Borneo, Sumatra, Java, New Guinea, New Caledonia, New Zealand, Fiji and Somoa.

**O. polyphyllum** A. Braun apud Seubert, Fl. Azor. 17. 1844. *O. aitchisoni* (Clarke) d' Almeida, Journ. Indian Bot. Soc. 3 : 63. f. 12 13.

1922; *O. lusitanicum sensu* Hope, Journ. Bomb. Nat. Hist. Soc. 15 : 106. 1903.

*Distrib.* : India (N. W. Himalayas), Ethiopia, Kenya, Tanganyka, Rhodesia, Africa, Cape Verde Islands, Arabia.

*O. reticulatum* L. Sp. Pl. 2 : 1063. 1753 ; Bedd. Ferns South. India 23 t. 70. 1863 ; Handb. Ferns Brit. India 465. t. 291. 1883 ; Suppl. 109. 1892. f. *reticulatum*. *Ophioglossum cordifolium* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 475. 1844.

*Distrib.* : Throughout India from the plains to mountainous regions, pantropic.

*O. reticulatum* L. f. *complicatum* (Miq.) Wieff. Blumea 12 : 330. f. 1. a 1964. *Ophioglossum moluccanum* f. *complicatum* Miq. Ann. Mus. Bot. Lugd. Bat. 4 : 290. 1868.

*Distrib.* : India (Eastern India, Sikkim), Japan, Thailand, Bonin Island, Sumatra, Malay Peninsula, Java, Lesser Sunda Island, Borneo, Philippines, Moluccas, New Guinea, New Caledonia.

*O. reticulatum* L. f. *dilatatum* (Miq.) Wieff. Blumea 12 : 329. f. I. C. 1964. *O. moluccanum* f. *dilatatum* Miq. Ann. Mus. Bot. Lugd. Bat. 4 : 92. 1868.

*Distrib.* : India (N. W. Himalayas) Sumatra, Malay Peninsula, Java, Lesser Sunda Island, Borneo, Philippines, Fiji Islands.

*O. thermale* Kumarov var. *nipponicum* (Miyabe & Kudo) Nishida in Tagawa, Journ. Jap. Bot. 33 : 202. 1958. *O. nipponicum* Miyabe & Kudo, Trans. Sapporo Nat. Hist. Soc. 6 : 122. 1916. *O. japonicum* Prantl, Ber. deut. bot. Ges. 1 : 353. 1883 ; Mahabale, Bull. Bot. Surv. India 4 : 71. 1962.

*Distrib.* : India (E. Himalayas), throughout Japanese Islands, China, Korea, Japan.

*O. vulgatum* L. Sp. Pl. 2 : 1062. 1753 ; Bedd. Handb. Ferns Brit. India 464. 1883 ; Suppl. 109. 1892.

*Distrib.* : India (N. W. Himalayas), widely distributed in temperate zones on the whole northern hemisphere.

#### ANGIOPTERIDACEAE Fée ex Bonner

*Angiopteris* Hoffm. Comm. Soc. Reg. Sci. Gotting 12 : 29. 1793 94 ; de Vriese, Mon. 26. 1853 ; Dixit & Panigr. Bull. Bot. Surv. India 10 (3 & 4) : 368. 1969.

Type : *A. evecta* (Forst.) Hoffm. Comm. Soc. Reg. Sci. Gotting 12 : 29. 1793 94.

*A. arnottiana* Miquel, verh. Nederl. Inst. III. 4 : 53. t. 7. f. A. 1851.  
*Distrib.* : India.

*A. assamica* de Vriese, Mon. 33. 1853.  
*Distrib.* : India (Assam).

*A. campophlebia* de Vriese, Mon. 31. 1853.  
*Distrib.* : India.

*A. crassipes* Wall. ex Presl, Suppl. Tent. Pterid. 23. 1845.  
*Distrib.* : India (Himalayas), Nepal, Burma, China, Australia.

*A. distans* Presl, Suppl. Tent. Pterid. 23. 1845.  
*Distrib.* : India.

*A. evecta* (Forst.) Hoffm. Comm. Soc. Reg. Gott. 12 : 29 : t. 5. 1793-94 ; Bedd. Ferns South. India t. 78. 1863 ; Handb. Ferns Brit. India 460. t. 285. 1883. *Polypodium evectum* Forst. Prod. 81. 1786.

*Distrib.* : Throughout India in hilly regions, China, Japan, Tropical Australia, New Caledonia, Madagascar, Malaysia to Polynesia.

*A. hookeriana* d. Vriese, Mon. 29. 1853.  
*Distrib.* : India.

*A. hugeliana* Presl, Suppl. Tent. Pterid. 25. 1845.  
*Distrib.* : India.

*A. laciniata* de Vriese, Mon. 30. 1853.  
*Distrib.* : India (N. W. Himalaya).

*A. latifolia* Presl, Suppl. Tent. Pterid. 24. 1845.  
*Distrib.* : India (Pundoa).

*A. macrocephala* Presl, Tent. Pterid. 24. 1845.  
*Distrib.* : India (Punjab).

*A. repandula* de Vriese, Mon. 30. t. 3. f. 4. t. 4. f. 4. 1853.  
*Distrib.* : India (Saharnpur).

*A. salicifolia* (Presl) de Vriese, Mon. 34. 1853. *Psilodochea salicifolia* Presl, Suppl. Tent. Pterid. 28. 1845.



*Distrib.* : India (E. Himalayas), Pakistan.

**A. wallichiana** Presl, Suppl. Tent. Pterid. 22. 1845.

*Distrib.* : India (Himalayas).

**A. wightiana** de Vriese, Mon. 28. 1853.

*Distrib.* : S. India.

### MARATTIACEAE Berch. et Presl

**Marattia** Sw. Prod. Fl. Ind. Occ. 128. 1788 ; Dixit & Panigr. Bull. Bot. Surv. India 10 (3 & 4) : 370. 1969.

Type : **M. alata** Sw. Prod. Fl. Ind. Occ. 128. 1788.

**M. fraxinea** Smith, Pl. Ic. in ed. 2. t. 48. 1790; Bedd. Ferns South. India 27. t. 79. 1863 ; Handb. Ferns Brit. India 460. t. 286. 1883.

*Distrib.* : South India, Sri Lanka, tropics of the world and a little beyond in the Southern zone.

### CHRISTENSENIACEAE Ching

**Christensenia** Maxon, Proc. Biol. Soc. Wash. 18 : 239. 1905 ; Dixit & Panigr. Bull. Bot. Surv. India 10 (3 & 4) : 370. 1969.

Type : **C. aesculifolia** (Bl.) Maxon, Proc. Biol. Soc. Wash. 18 : 239. 1905.

**C. aesculifolia** (Bl.) Maxon, Proc. Biol. Soc. Wash. 18 : 239. 1905. *Aspidium aesculifolium* Bl. Enum. Pl. Jav. 2: 143. 1828. *Kaulfussia aesculifolia* (Bl.) Bl. Enum. Pl. Jav. 2 : 260. 1818 ; Bedd. Ferns Brit. India t. 185. 1865 ; Handb. Ferns. Brit. India 462. t. 267. 1883. *K. assamica* Griff. Asiatic Research. 19 : 108. t. 18. 1836.

*Distrib.* : India (Assam, Meghalaya, Arunachal Pradesh), Bangla Desh, Malay Islands, Philippines.

## OSMUNDACEAE Berch. &amp; Presl

**Osmunda** L. Sp. Pl. 2 : 1063. 1753. Panigr. & Dixit, Journ. Indian Bot. Soc. 43 (1 & 2) : 90. 1969.

Lectotype : **O. regalis** L. Sp. Pl. 2 : 1063. 1753.

**O. cinnamomea** L. Sp. Pl. 2 : 1066. 1753.

*Distrib.* : India (Arunachal Pradesh), China, Japan, Mexico, Brazil, Manchuria.

**O. claytoniana** L. Sp. Pl. 2 : 1066. 1753 ; Bedd. Handb. Ferns Brit. India 449. t. 275. 1883.

*Distrib.* : India (Himalayas from Kashmir to Eastern Himalayas), America, China.

**O. claytoniana** var. *vestita* Wall. ex Milde, Mon. Gen. Osmunda 102. 1868.

*Distrib.* : India (Eastern Himalayas).

**O. japonica** Thunb. Fl. Jap. 330. 1784.

*Distrib.* : India (Assam, Meghalaya, Uttar Pradesh), Bhutan.

**O. regalis** L. Sp. Pl. 2 : 1065. 1753 ; Bedd. Ferns South. India 26. t. 76. 1863 ; Handb. Ferns Brit. India 550. t. 276. 1883.

*Distrib.* : India (Assam, Meghalaya, Uttar Pradesh, Madhya Pradesh, Tamil Nadu, Kerala, Maharashtra, Karnataka), Pantropic.

## PLAGIOGYRIACEAE Bower

**Plagiogyrea** (Kunze) Mett. Abhandl. d. Senckneb. naturf. Ges. 2 : 265. 1858 ; Ching, Acta Phytotax. Sin. 7 (2) : 105. 1958 ; Dixit & Das, Proc. Indian Acad. Sci. (Plant Sci.) 90 (4) : 371. 1981.

Lectotype : **P. triquetra** Wall. ex Mett. Abhd. Senckneb. naturf. Ges. 2 : 265. 1858.

**P. chinensis** Ching, Acta Phytotax. Sin. 7 (2) : 140. t. 30. f. 2. 1958.

*Distrib.* : India (Meghalaya), China.

**P. christii** Copel. Philip. Journ. Sci. Suppl. 1 : 153. 1906.

*Distrib.* : India (Meghalaya), China.

**P. coerulescens** Ching, Acta Phytotax. Sin. 7(2) : 148. t. 36. f. 2. 1958.

*Distrib.* : India (West Bengal, Meghalaya), China.

**P. decrescens** Ching, Acta. Phytotax. Sin. 7(2) : 146. t. 33. f. 2. 1958.

*Distrib.* : India (West Bengal, Sikkim), China.

**P. distanta** Dixit & Das, Proc. Indian Acad. Sci. (Plant Sci.) 90 (4) : 486. f. 16. 1981. *P. glaucescens* Ching var. *arguta* Ching, Acta Phytotax. Sin. 7 (2) : 151. 1958.

*Distrib.* : India (Nagaland), China (Yunnan).

**P. elongata** Dixit & Das, Proc. Indian Acad. Sci. (Plant Sci.) 90 (4) : 377. f. 5. 1981.

*Distrib.* : Eastern India.

**P. euphlebia** (Kunze) Mett. Abhandl. d. Senckneb. Natur. Ges. 2 : 274. 1858 ; Bedd. Ferns Brit. India 1866. (*pro parte* excl. t. 165) ; Handb. Ferns Brit. India 129. 1883.

*Distrib.* : India (Assam, Meghalaya), China, Japan, Korea.

**P. gigantea** Ching, Lingnan Sc. Journ. 15 : 275. 1936.

*Distrib.* : Eastern India, China.

**P. glaucescens** Ching, Acta Phytotax. Sin. 7 (2) : 150. t. 38. f. 2. 1958. *P. glauca sensu* auct. Bedd. Ferns. Brit. India t. 90. 1865 (*descr. pro parte*) ; Handb. Ferns Brit. India 127. 1883 (*descr. pro parte*) ; Panigr. Bull. Bot. Surv. India 2 : 313. 1960. *Lomaria glauca sensu* auct. Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 472. 1880, *pro parte* (*non* Bl. 1828).

*Distrib.* : India (Assam, Manipur, Meghalaya), China, Burma.

**P. lanuginosa** Ching, Acta Phytotax. Sin. 7 (2) : 147. t. 35. f. 1. 1958.

*Distrib.* : India (Arunachal Pradesh), China.

**P. media** Ching, Acta Phytotax. Sin. 7 (2) : 149. t. 38. f. 1. 1958.

*Distrib.* : Eastern India, Burma, China.

**P. meghalayensis** Dixit & Das, Proc. Indian Acad. Sci. (PlantSci.) 90 (4) : 378. f. 7. 1981.

*Distrib.* : India. (Meghalaya).

**P. minguingensis** Dixit & Das, Proc. Indian Acad. Sci. (Plant Sci.) 90 (4) : 382. f. 12. 1981.

*Distrib.* : Eastern India.

**P. rankanensis** Hayata, Icon Pl. Form. 8 : 150. f. 80. 1919. *Lomaria adnata sensu* auct. Hook. Sp. Fil. 3 : 19. t. 147. 1860 (*pro parte*). *P. adnata sensu* Bedd. Ferns Brit. India t. 51. 1965 ; Handb, Ferns Brit. India 157. t. 65. 1883 (*non* Bl. 1828).

*Distrib.* : Eastern India, Burma, China, Japan.

**P. scandens** Mett. Abhandl. d. Senckenb. naturf. Ges. 2 : 273. t. 4. f. 21. 1858. *P. pycnophylla sensu* Bedd. Ferns Brit. India. t. 52. 1865 ; Handb. Ferns Brit. India 129. 1883 (*pro parte*). *P. communis* Ching, Acta Phytotax. Sin. 7 (2) : 147. t. 5. f. 2. 1958.

*Distrib.* : India (Eastern India & Eastern Himalayas), Burma, China.

**P. triquetra** Wall. ex Mett. Abhandl. d. Senckenb. naturf. Ges. 2. 274. 1858. *P. euphlebica sensu* Bedd. Ferns Brit. India t. 165. 1866 (*Descr. pro parte*).

*Distrib.* : Eastern India, Nepal.

#### GLEICHENIACEAE (R. Br.) Presl

**Gleichenia** J. Sm. Mém. Acad. Sc. Turin. 5 : 419. t. 9. f. 10. 1793 ; Panigr. & Dixit, Bull. Bot. Surv. India 10 : 337. 1968 ; Holtt. Fl. Males. ser. II. Pterid. 1 (5) : 1. 1959.

Type : **G. polypodioides** (L.) Sm. Mém. Acad. Sc. Turin 5 : 419. t. 9. f. 10. 1793.

**G. blotiana** C. Chr. Bull. Mus. Hist. Nat. Paris II. 6 : 103. 1934.

*Distrib.* : Eastern India, Indo China, South China, Malay Peninsula.

**G. gigantea** Wall. ex Hook. Sp. Fil. 2 : 5. t. 3A. 1844 ; Bedd. Ferns Brit. India t. 30. 1865. *G. glauca* auct. Hook ; Bedd. Handb. Ferns Brit. India 2. 1883. *quoad* pl. Ind. (*non* Thunb.).

*Distrib.* : North - East India, Burma, China, Vietnam, North Thailand, Malay Peninsula.

**G. laevissima** Christ, Bull. Acad. Inst. Geogr. Bot. III. 11. 268. 1902.

*Distrib.* : Eastern India, China, Formosa, Malaysia, Philippines.

**G. longissima** Bl. Enum. Pl. Jav. 2 : 250. 1828. *G. glauca sensu* Bedd. Handb. Ferns Brit. India 2. t. 1. 1883.

*Distrib.* : Eastern India and Eastern Himalayas, Nepal, Bhutan, China, Japan, Malaya, Malesian Islands, America, Polynesia, Australia.

**G. volubilis** Jungh. Java 1 : 592, 664. 1893.

*Distrib.* : India (Assam, Meghalaya, Eastern Himalayas), Indochina, Formosa, Philippines, Malay Islands, New Guinea.

### DICRANOPTERIDACEAE Ching

**Dicranopteris** Bernh. Schrad. Journ. Bot. 1 (2) : 38. 1805 ; Holtt. Fl. Males ser. II. Pterid. 1 : 27. 1959 ; Panigr. & Dixit, J. Sen Mem. Vol. 469. 1969.

Type : **D. dichotoma** (Thunb. ex Murray) Bernh. Schrad. Journ. Bot. 1 (2) : 38, 49. t. 3. f. 13. 1805.

**D. curranii** copel. Philip. Journ. Sci. 81 : 4. 1952.

*Distrib.* : India (Nicobar Islands), Malay Peninsula, Malay Islands.

**D. linearis** (Burm. f.) Underw. Bull. Torrey Bot. Club 34 : 250. 1907. var. **linearis**. *Polypodium linearis* Burm. f. Fl. Ind. 235. t. 67. f. 2. 1768. *Gleichenia linearis* (Burm. f.) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 428. 1880.

*Distrib.* : Widely distributed in the tropics and subtropics of the world.

**D. linearis** (Burm. f.) Underw. var. **altissima** Holtt. Reinw. 4 : 276. 1957.

*Distrib.* : India (Arunachal Pradesh, Assam, Meghalaya, Madhya Pradesh, Tamil Nadu), Malay Peninsula, Philippines, Moluccas, New Guinea, Solomon Islands.

**D. linearis** (Burm. f.) Underw. var. **demota** Holtt. Reinw. 4 : 272. 1957.

*Distrib.* : India (Eastern Himalayas) Nepal, Malaysia, North Borneo, New Guinea.

**D. linearis** (Burm. f.) underw. var. **latiloba** Holtt. Reinw. 4 : 277. 1957.

*Distrib.* : India (Arunachal Pradesh, Assam, Meghalaya) Malaysia, Philippines, Celebes.

**D. linearis** (Burm. f.) Underw. var. **montana** Holtt. Reinw. 4 : 276. 1957.

*Distrib.* : India (Himalayas, S. India), Malaysia.

**D. linearis** (Burm. f.) Underw. var. **sebastiana** Panigr. & Dixit. Bull. Bot. Surv. India 13 (1 & 2) : 162. 1971.

*Distrib.* : India (Tamil Nadu Nilgiri hills).

**D. linearis** (Burm. f.) Underw. var. **subferruginea** (Hieron. ex Brause) Nakai, Bull. Nat. Sci. Mus. Tokyo no. 29. 66. 1950. *Gleichenia linearis* var. *subferruginea* Hieron. ex Brause, Bot. Jahrb. 56 : 209. 1920.

*Distrib.* : India (Eastern Himalayas) Queensland, Polynesia, East Malaysia, New Guinea.

**D. linearis** (Burm. f.) Underw. var. **subpectinata** (Christ) Holtt. Reinw. 4 : 277. 1957.

*Distrib.* : India (Himalayas, Andaman Islands), Sumatra, Malaya Peninsula, Lingga Archipelago, Banka, Borneo.

**D. linearis** (Burm. f.) Underw. var. **wattii** Panigr. & Dixit, Bull. Bot. Surv. India 13 (1 & 2) : 162. 1971.

*Distrib.* : India (Manipur).

#### GRAMMITACEAE (Presl) Ching

**Ctenopteris** Bl. ex Kunze, Bot. Zeit 425. 1846 ; Sledge, Bull. Brit. Mus. (N. H.) 4 : 155. 1966.

Lectotype : **C. venulosa** (Bl.) Bl. ex Kunze, Bot. Zeit. 4 : 425. 1846.

**C. subfalcata** (Bl.) Kunze, Bot. Zeit. 120. 1848. *Polypodium sub-falcatum* Bl. Enum. Pl. Jav. 2 : 130. 1828 ; Bedd. Handb. Ferns Brit. India 314. 1883.

*Distrib.* : Throughout India in hilly regions, Malaya.

**C. trichomanoides** J. Sm. Hist. Fil. 184. 1875. *Polypodium trichomanoides* Sw. Prod. 131. 1788 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 549. 1880 ; Bedd. Handb. Ferns Brit. India 308. t. 162. 1883.

*Distrib.* : India (Sikkim), South America, Brazil, Ecuador, Cuba.

**Grammitis** Sw. Schrad. Journ. Bot. 1800 (2) : 3, 17. 1801.

Lectotype : **G. marginalis** (Sw.) Sw. Schrad. Journ. Bot. 1800 (2) : 17. 1801.

**G. attenuata** Kunze, Linnaea 24 : 251. 1851. *Polypodium parasiticum* Mett. Abhandl. Senekneb Naturf. Ges. 2 : 36. 1856 ; Bedd. Ferns South. India 55. t. 165. 1864 ; Handb. Ferns Brit. India 302. 1883 (*pro parte, majore*).

*Distrib.* : South India, Sri Lanka.

**G. medialis** (Bak.) Sledge, Bull. Brit. Mus. (N. H.) London 2 : 149. 1960. *Polypodium mediale* Bak. in Hook. & Bak. Syn. Fil. ed. 2. 507. 1874. *P. parasiticum sensu* Bedd, Handb. Ferns Brit. India 302. 1883. (*pro parte, minore, non Mett.*)

*Distrib.* : South India, Sri Lanka.

**Prosaptia** Presl, Tent. Pterid. 165. t. 6. f. 19. 25. 1836 ; Sledge, Bull. Brit. Mus. (N. H.) 2 : 157. 1960.

Lectotype : **P. contigua** (G. Forst) Presl, Tent. Pterid. 166. 1836.

**P. alata** (Bl.) Christ, Ann. Jard. Bot. Buit. II. 5 : 127. 1905. *Davallia alata* Bl. Enum. Pl. Jav. 2 : 230. 1828.

*Distrib.* : South India, Sri Lanka, Sumatra to Polynesia.

**P. contigua** (G. Forst.) Presl, Tent. Pterid. 166. 1836 ; Bedd. Ferns South. India 6. t. 19. 1863 ; Handb. Ferns Brit. India 56. 1883. *Trichomanes contiguum* G. Forst. Prod. 84. 1786.

*Distrib.* : South India, Sri Lanka, Sumatra to Polynesia.

**P. khasyana** (Hook.) C. Chr. & Tard. in Natur. Syst. 8 : 180. 1939. *Polypodium khasyanum* Hook. Ic. Pl. 10. t. 949. 1854 ; Bedd. Ferns Brit. India t. 173. 1866 ; Handb. Ferns Brit. India 308. 1883.

*Distrib.* : Eastern India, Burma, Hainan, Annam, Cambodia, Malaya, Borneo, Celebes, Sri Lanka.

**P. obliquata** (Bl.) Mett. in Reise Osterr. Novara Bot. 1 : 214. 1870. *Polypodium obliquatum* Bl. Enum. Pl. Jav. 2 : 128. 1828 ; Bedd. Handb. Ferns Brit. India 311. 1883.

*Distrib.* : South India, Sri Lanka, Sumatra to Polynesia.

**Scleroglossum** V. Ald. V. Ros. Bull. Jard. Bot. Buit. ser. II. no. 7. 37. 1912.

Lectotype : *S. pusillum* (Bl.) v. A. v. R. Bull. Jard. Bot. Buit. ser. 2. no 7. 39. 1912.

*S. sulcatum* (Kuhn) v. A. v. R. Bull. Jard. Bot. Buit. ser. 2. no. 7. 39. 1912. *Taeniopsis falcata* Bedd. Ferns Brit. India t. 175. 1866. (*pro parte*; *non Vittaria falcata* Fée). *Vittaria sulcata* Kuhn, Linnaea 36 : 68. 1869 ; Bedd. Handb. Ferns Brit. India 408. 1883. *Taeniopsis sulcata* (Kuhn) Bedd. Ferns Brit. India, Suppl. 25. 1876; Ferns Brit. India t. 175. 1866.

*Distrib.* : India (Meghalaya), Sri Lanka.

*Xiphopteris* Kaulf, Berlin Jahrb. Pharm. 21 : 35. 1820.

Lectotype : *X. serrulata* (Sw.) Kaulf. Enum. Fil. 85 : 1824.

*X. sikkimensis* (Hieron.) Copel. Gen. Fil. 215. 1947. *Polypodium sikkimense* Hieron. Hedw. 44 : 97. 1905. *Polypodium trichomanoides sensu* Bedd. Handb. Ferns Brit. India 308. 1883.

*Distrib.* : India (Himalayas), W. China, Tonkin.

#### LOXOGRAMMACEAE Ching ex Pic. Ser.

*Loxogramme* (Bl.) Presl, Tent. Pterid. 214. t. 9. f. 8. 1836.

Lectotype : *L. lanceolata* (Sw.) Presl, Tent. Pterid. 215. t. 9. f. 8. 1836.

*L. chinensis* Ching, Sinensia 1 : 13. 1929.

*Distrib.* : India (Eastern Himalayas, Meghalaya, Arunachal Pradesh), China, Bhutan, Burma, Thailand.

*L. duclouxii* Christ, Bull. Acad. Géogr. Bot. 17 : 140. 1907.

*Distrib.* : India (Eastern India, and Himalayas), China, Japan.

*L. grammitoides* (Bak.) C. Chr. Ind. Fl. Suppl. 2 : 21. 1917. *Gymnogramme grammitoides* Bak. Journ. Bot. 27 : 178. 1889.

*Distrib.* : Himalayas to China and Japan.

*L. involuta* (D. Don) Presl, Tent. Pterid. 215. 1836 ; Bedd. Ferns South. India 17. t. 50. 1863 ; Handb. Ferns Brit. India 393. t. 228. 1883. *Grammitis lanceolata* D. Don, Fl. Nepal 14. 1825. *Gymnogramme involuta* Hook. Sp. Fil. 5 : 155. 1864 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 570. 1880.



*Distrib.* : Throughout Indian region up to 3000 m., Nepal, Bhutan, Sri Lanka, Japan, China, Malesian Islands, Polynesia.

**L. parallela** Copel. in Perkins, *Fragm. Fl. Philip.* 3 : 182. 1905 ; Sledge, *Bull. Brit. Mus. (N. H.) Bot.* 2 : 141. 1960. *L. lanceolata sensu* Bedd. *Handb. Ferns Brit. India* 392. 1883 (*non* C. Presl)

*Distrib.* : India (Eastern India & Eastern Himalayas), Sri Lanka, China, Japan, Fiji, Samoa, Africa.

**L. remote-frondigera** (Hayata) C. Chr. *Ind. Fil. Suppl.* II. 27. 1917 ; Dixit, Hazra & Kar, *Bull. Bot. Surv. India* 18 (1 - 4) : 222. f. 1 - 3. 1976. *Polypodium remote-frondigerum* Hayata, *Icon. Formos.* 5 : 323. f. 135 A, B. 1915.

*Distrib.* : India (Eastern Himalayas), China, Japan, Formosa.

**L. salicifolia** (Makino) Makino in *Bot. Mag. Tokyo* 19 : 138. 1905. *Gymnogramme salicifolia* Makino, *Phan. Pter. Jap. Icon.* III. 1. t. 34. 1899.

*Distrib.* : India (Himalayas and Assam), China, Japan, Formosa to Ryukyu.

#### POLYPODIACEAE Bercht. & Presl

**Arthromeris** (Moore) J. Sm. *Hist. Fil.* 110. 1875 ; Ching, *Contr. Inst. Bot. Natn. Acad. Peiping* 2 : 31. 1933.

Type : **A. wallichiana** (Spr.) Ching, *Contr. Inst. Bot. Natn. Acad. Peiping* 2 : 92. 1933.

**A. himalayansis** (Hook.) Ching, *Contr. Inst. Bot. Natn. Acad. Peiping* 2 : 99. 1933. *Polypodium himalayense* Hook. *Sp. Fil.* 5 : 91. 1863. *Pleopeltis himalayansis* (Hook.) Bedd. *Ferns Brit. India* t. 318. 1869 ; *Handb. Ferns Brit. India* 370. f. 212. 1883. *Polypodium venustum* Wall. *ex* Clarke, *Trans. Linn. Soc. Lond. II. Bot.* 1 : 566. 1880. (*non* Desv. 1811.) *Polypodium venustum* var. *niphoboloides* Clarke, *Trans. Linn. Soc. Lond. II. Bot.* 1 : 587. 1880.

*Distrib.* : India (Himalayas), Burma, China.

**A. himalayansis** (Hook.) Ching var. **furcans** Ching, *Icon. Fil. Sin.* 3 : 100. 1935.

*Distrib.* : India (Sikkim).

**A. jarrettii** Sastry & Chaudhury, Bull. Bot. Surv. India 11 : 442. 1969.  
*Distrib.* : India (Arunachal Pradesh).

**A. lehmanni** (Mett.) Ching, Contr. Inst. Bot. Natn. Acad. Peiping 2 : 96. 1933. *Polypodium lehmanni* Mett. Abh. Senekneb. Naturf. Ges. 2 : 109. 1857. *Pleopeltis lehmanni* (Mett.) Bedd. Ferns Brit. India t. 260. 1868 ; Handb. Ferns Brit. India 370. t. 211. 1883.

*Distrib.* : Himalayas to China, Formosa, Burma, North Thailand.

**A. lungtauensis** (Ching) Ching, Contr. Inst. Bot. Natn. Acad. Peiping 2 : 98. 1933. *Polypodium lungtauensis* Ching in C. Chr. Ind. Fil. Suppl. 3 : 152. 1934.

*Distrib.* : India (Eastern Himalayas), Tonkin, Laos, S. China.

**A. tatsiensis** (Fr. & Bureau ex Christ) Ching, Contr. Inst. Bot. Natn. Acad. Peiping 2 : 93. 1933. *Polypodium tatsiense* Fr. & Bureau ex Christ, Bull. Soc. Fr. 52. Mém. 1 : 19. 1905.

*Distrib.* : India (Himalayas), E. Nepal, N. Thailand, China.

**A. tenuicauda** (Hook.) Ching, Contr. Inst. Bot. Natn. Acad. Peiping 2 : 91. 1933. *Pleopeltis juglandifolia* var. *tenuicauda* Bedd. Handb. Ferns Brit. India 370. 1883.

*Distrib.* : India (Himalayas from Garhwal to Bhutan, Khasia).

**A. wallichiana** (Spreng.) Ching, Contr. Inst. Bot. Natn. Acad. Peiping 2 : 92. 1933. *Polypodium wallichianum* Spreng. Syst. Veg. 4 : 53. 1827. (Based on *P. juglandifolium* D. Don). *Pleopeltis juglandifolia* (D. Don) Moore, Ind. Fil. 78. 1857 ; Bedd. Handb. Ferns Brit. India 368. t. 210. 1883. *Pleopeltis capitellata* (Mett.) Bedd. Ferns Brit. India t. 12. 1865.

*Distrib.* : India (Himalayas), Burma, China, Thailand.

**A. wardii** (Clarke) Ching, Contr. Inst. Bot. Natn. Acad. Peiping 2 : 94. 1933. *Polypodium wardii* Clarke, Journ. Linn. Soc. 25 : 99. t. 43. 1889.

*Distrib.* : India (Naga hills), Bhutan, Burma, Tibet.

**Belvisia** Mirb. in Lam. & Mirb. Hist. Nat. Veg. 3 : 473. 1802 ; Sledge, Bull. Brit. Mus. (N. H.) Bot. 2 : 139. 1960.

Lectotype : **B. spicata** (L. f.) Mirb. in Lam. & Mirb. Hist. Nat. Veg. 3 : 473. 1802.

**B. henryi** (Hieron. ex C. Chr.) Tagawa in Hara's Fl. East. Himalaya 490. 1960. *Hymenolepis henryi* Hieron. ex C. Chr. in Dansk Bot. Ark. 6 (3) : 67. 1929. *Gymnopteris spicata sensu* Bedd. Handb. Ferns Brit. India 432. 1883. (*pro parte*).

*Distrib.* : India (Himalayas), Burma, Thailand, W. China.

**B. mucronata** (Fée) Copel. Gen. Fil. 192. 1947. *Hymenolepis mucronata* Fée, Gen. Fil. 82. t. 6 B. f. 1. 1851-52. *Gymnopteris spicata* Bedd. Ferns Brit. India 432. 1883 (*pro parte, non Presl*).

*Distrib.* : India (Himalayas) Sri Lanka.

**B. revoluta** (Bl.) Copel. Gen. Fil. 192. 1947. *Hymenolepis revoluta* Bl. Enum. Pl. Jav. 2 : 201. 1828. *Gymnopteris spicata sensu* Bedd. Handb. Ferns Brit. India 432. 1883 (*pro parte ; non Presl.*)

*Distrib.* : India (Himalayas), Sri Lanka.

**Christopteris** Copel. Perkins, Fragm. Fl. Philip. 3 : 188. 1905.

Type : *C. sagitta* (Christ) Copel. in Perkins Frag. Fl. Philip. 3 : 188. 1905.

**C. tricuspis** (Hook.) Christ, Journ. de Bot. 21 : 239, 272. 1908. *Acrostichum tricuspe* Hook. Sp. Fil. 272. t. 304. 1864. *Gymnopteris tricuspis* Bedd. Ferns Brit. India t. 53. 1866 ; Handb. Ferns Brit. India 434. t. 263. 1883.

*Distrib.* : India (Sikkim).

**Colysis** Presl, Epim. Bot. 146. 1851 ; Ching, Bull. Fan Mem. Inst. Biol. Bot. 4. 293. 1933 ; Dixit & Ghosh, Bull. Bot. Surv. India 20 : 100. 1978.

Lectotype : *C. hemionitidea* (Wall. ex Mett.) Presl, Epim. Bot. 147. 1851.

**C. digitata** (Bak.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 328. 1933. *Gymnogramma digitata* Bak. Journ. Bot. 267. 1890.

*Distrib.* : India (Sikkim, Manipur), China.

**C. elliptica** (Thunb.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 333. 1933. *Polypodium ellipticum* Thunb. Fl. Jap. 335. 1784. *Selliguea elliptica* Bedd. Ferns Brit. India t. 150. 1867 ; Handb. Ferns Brit. India 392. t. 227. 1883 (*pro parte*). *Gymnogramma elliptica* Hook. & Bak. Syn. Fil. 389. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1. 570. 1880 (*pro parte*).

*Distrib.* : India (Himalayas), Nepal to Bhutan, Burma, Malaya peninsula, Philippines, Queensland, Formosa.

**C. hemionitidea** (Wall. ex Mett.) Presl, Epim. Bot. 147. 1851. *Polypodium hemionitideum* Wall. ex Mett. Ann. Lugd. Bat. 4 (2) : 215. 1866. *Pleopeltis hemionitidea* Moore, Ind. Fil. 436. 1862 ; Bedd. Ferns Brit. India t. 182. 1867 ; Handb. Ferns Brit. India 358. t. 202. 1883.

*Distrib.* : Throughout India in mountainous regions, Nepal, Bhutan, Bangladesh, Malay Islands.

**C. latiloba** (Ching) Ching, Bull. Fan Mem. Inst. Biol. 4 : 330. 1933.  
*Polypodium latilobum* Ching, Bull. Fan Mem. Inst. Biol. 2 : 21. t. 7. 1931.

*Distrib.* : India (Himalayas).

**C. longisora** (Bak.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 331. 1933.  
*Gymnogramme longisora* Bak. Journ. Bot. 267. 1890.

*Distrib.* : India (Manipur), China, Vietnam.

**C. pedunculata** (Hook. & Grev.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 321. 1933. *Ceterach pedunculata* Hook. & Grev. Icon. Fil. t. 5. 1827.  
*Gymnogramma hamiltoniana* Hook. Sp. Fil. 5 : 160. 1864 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 570. 1880. *Selliguea hamiltoniana* Bedd. Ferns Brit. India t. 239. 1867 ; Handb. Ferns Brit. India 390. t. 226. 1883.

*Distrib.* : India (Himalayas) Bangladesh, Nepal, Burma.

**C. pentaphylla** (Bak.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 332. 1932. *Gymnogramma pentaphylla* Bak. Kew Bull. 233. 1898.

*Distrib.* : India (Manipur), China (Yunnan).

**C. pothifolia** (D. Don) Presl, Epim. Bot. 148. 1851. *Hemionitis pothifolia* D. Don, Prod. Fl. Nepal 13. 1825. *Colysis elliptica* var. *pothifolia* (D. Don) Ching, Bull. Fan Mem. Inst. Biol. 4 : 334. 1933. *Selliguea elliptica* Bedd. Ferns Brit. India t. 150. 1867 ; Handb. Ferns Brit. India 392. 1883 (*pro parte*). *Gymnogramma elliptica* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 570. 1880 (*pro parte*).

*Distrib.* : India (Himalayas), Nepal, Burma, China, Malay Peninsula, Philippines, Queensland and Formosa.

**Crypsinus** Presl, Epim. Bot. 123. 1851.

Type : **C. pyrolifolius** (Goldm.) Copel. Gen. Fil. 206. t. 8. f. 1. 1947.

**C. yakushimensis** (Mak.) Tagawa, Acta Phytotax. Geobot. 14 : 194. 1952. *Polopodium engleri* var. *yakushimense* Mak. Bot. Mag. Tokyo 23 : 248. 1909.

*Distrib.* : India (Himalayas), Japan.

Majority of its species has been transferred by Pic. Ser. *Webbia* 28 (2) : 445. 1973. into **Phymatopteris**, The genus requires thorough revisionary studies. Pteridologists still recognise it as good genus.

**Dendroglossa** Presl, Epim. Bot. 149. 1851.

Lectotype : *D. minor* (Fée) Copel. Gen. Fil. 199. 1947.

*D. minutula* (Fée) Copel. Gen. Fil. 199. 1947. *Leptochilus minutulus* Fée, Mèm. Fam. Foug. 8 : t. 31. f. 2. 1865. *Gymnopteris minus sensu* Bedd. Ferns Brit. India t. 116. 1865 ; Handb. Ferns Brit. India 430. f. 259. 1883.

*Distrib.* : Eastern India, Sri Lanka.

*Drymoglossum* Presl, Tent. Pterid. 227. t. 10. f. 5 6. 1836. *nom. cons.*

Type : *D. piloselloides* (L.) Presl, Tent. Pterid. 227. t. 10. f. 5 6 1836.

*D. heterophyllum* (L.) Trimen, Journ. Linn. Soc. Bot. 24 : 152. 1887. *Actrostichum heterophyllum* L. Sp. Pl. 2 : 1067. 1753. *Drymoglossum piloselloides* var. *beddomei* Bedd. Handb. Ferns Brit. India 413. 1883.

*Distrib.* : South India, Tropical Asia.

*D. piloselloides* Presl, Tent. Pterid. 227. 1836 ; Bedd. Ferns South. India t. 55. 1863 ; t. 186. 1865 ; Handb. Ferns Brit. India 411. 1883.

*Distrib.* : Throughout India in mountainous regions, Sri Lanka, Java, Philippines, China, Japan.

*Drymotaenium* Mak. Bot. Mag. Tokyo 15 : 102. 1901.

Type : *D. miyoshianum* (Mak.) Mak. Bot. Mag. Tokyo 15 : 102. 1901.

*D. miyoshianum* (Mak.) Mak. Bot. Mag. Tokyo 15 : 109. 1901 ; Dixit & Nair, Journ. Indian Bot. Soc. 54 : 256. f. 1 - 6. 1975. *Taenitis miyoshiana* Mak. Bot. Mag. Tokyo 12 : 26. 1898.

*Distrib.* : India (Arunachal Pradesh), China.

*Goniophlebium* Presl, Tent. Pterid. 185. t. 7. f. 13 14. 1836.

Lectotype : *G. articulatum* (Desv.) Presl, Tent. Pterid. 185. t. 7. f. 13 - 14. 1836.

*G. amoenum* (Wall. ex Mett.) J. Sm. in Hook. Gen. Fil. t. 51. 1840 ; Bedd. Ferns Brit. India t. 5. 1865 ; Handb. Ferns Brit. India 317. 1883. *Polypodium amoenum* Wall. ex Mett. Abh. Senckneb. naturf. Ges. 2 : 80. 1857.

*Distrib.* : India (Himalayas from Gurhwal to Bhutan, Meghalaya) China to Formosa, south to Indo China and North Thailand.

*G. subauriculatum* (Bl.) Presl, Tent. Pterid. 186. 1836 ; Bedd. Ferns

Brit. India t. 78. 1865 ; Handb. Ferns Brit. India 323. f. 173. 1883.  
*Polypodium subauriculatum* Bl. Enum. Pl. Jav. 133. 1828.

*Distrib.* : India (Meghalaya) Malaya Peninsula, Malay Islands,  
Queensland.

*Holcosorus* Moore, Ind. Fil. XXIX 1857 ; Dixit & Nair, Proc. Indian  
Acad. Sci. (Plant Sci) 86 B (6) : 385. f. 1 5. 1977.

Type : *H. bisulcatus* (Hook.) Ching, Sunyat. 5 : 265. 1940.

*H. bisulcatus* (Hook.) Ching, Sunyat. 5 : 265. 1940. *Grammitis bisul-*  
*catus* Hook. Icon. Pl. t. 998. 1854.

*Distrib.* : India (Arunachal Pradesh), Borneo.

*Lemaphyllum* Presl, Epim. Bot. 157. 1851 ; Nayar. Bull. Natn. Bot  
Gard. Lucknow no. 106. 1. 1964.

Lectotype : *L. spatulatum* Presl, Epim. Bot. 158. 1851.

*L. carnosum* (J. Sm.) Presl, Epim. Bot. 158. 1840. *Drymoglossum*  
*carnosum* J. Sm. in Hook. Gen. Fil. t. 784 1841 ; Clarke, Trans. Linn. Soc.  
Lond. II. Bot. 1 : 575. 1880 ; Bedd. Handb. Ferns Brit. India 411. t. 243.  
1883.

*Distrib.* : India (Sikkim, Meghalaya), Nepal, Tonkin, N. Thailand,  
China.

*Lepidogrammitis* Ching, Sunyat. 5 : 258. 1940.

Type : *L. drymoglossoides* (Bak.) Ching, Sunyat. 5 : 258. 1940.

*L. subrostrata* (C. Chr.) Ching, Sunyat. 5 : 258. 1940. *Polypodium*  
*subrostratum* C. Chr. Ind. Fil. 567. 1906. *Pleopeltis rostrata* Bedd. Ferns  
Brit. India t. 159. 1867. (based on *Polypodium rostratum* Hook. Icon.  
Pl. t. 953. 1854.

*Distrib.* : N. E. India to S. W. China, Indo China.

*Lepiosrus* (J. Sm.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 47.  
1933 ; Birt & Tirkha, Amer. Fern Journ. 64 (2) : 49. 1974.

Type : *L. thunbergianus* (Kaulf.) Ching, Bull. Fan Mem. Inst. Biol.  
Bot. 4 : 88. 1933.

*L. amaurolepidus* (Sledge) Bir & Tirkha, in Bir & Vasudeva, Journ.  
Bomb. Nat. Hist. Soc. 68 : 192. 1971. var. *amaurolepidus*. *Pleopeltis*  
*amaurolepida* Sledge, Bull. Brit. Mus. (N. H.) 2 : 136. 1960.

*Distrib.* : South India, Sri Lanka.

**L. amaurolepidus** var. **longifolius** Bir & Tirkha, Amer. Fern Journ. 64 : 63. f. 53-57. 1974.

*Distrib.* : India (W. Himalayas).

**L. angustus** Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 86. 1933.

*Distrib.* : India (Arunachal Pradesh), China.

**L. bicolor** (Takeda) Ching, Bull. Fan. Mem. Inst. Biol. 4 : 66. 1933. *Polypodium excavatum* var. *bicolor* Takeda, Notes Roy. Bot. Gard. Edinb. 8 : 280. 1915.

*Distrib.* : India (Himalayas), China.

**L. clathratus** (Clarke) Ching, Bull. Fan. Mem. Inst. Biol. 4 : 71. 1933. *Polypodium clathratum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 559. t. 82. f. 1. 1880. *Pleopeltis clathrata* (Clarke) Bedd. Handb. Ferns Brit. India 348. 1883.

*Distrib.* : India (Himalayas), Afghanistan.

**L. contortus** (Christ) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 90. 1933. *Polypodium lineare* var. *contortum* Christ, Nouvo. Giorn. Bot. Soc. Ital. n. s. 4 : 98. 1897.

*Distrib.* : India (Himalayas), China.

**L. excavatus** (Willd.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 68. 1933, var. **excavatus**. *Polypodium excavatum* Willd. in L. Sp. Pl. 5 : 158. 1810. *Pleopeltis simplex* Bedd. Handb. Ferns Brit. India 347. 1883.

*Distrib.* : India (Himalayas).

**L. excavatus** (Willd.) Ching var. **himalayensis** Bir & Tirkha, Amer. Fern Journ. 64 : 58. f. 33-37. 1974.

*Disirib.* : India (N. W. Himalayas).

**L. excavatus** (Willd.) Ching var. **mortonianus** Bir & Tirkha, Amer. Fern Journ. 64 : 56. f. 25-32. 1974.

*Distrib.* : India (N. W. Himalayas).

**L. excavatus** var. **scolopendrius** (Buch. Ham. ex D. Don) Ching, Bull Fan Mem. Inst. Biol. Bot. 4 : 69. 1933. *Polypodium scolopendrium* Buch. Ham. ex D. Don Prod. Fl. Nepal. 1. 1825.

*Distrib.* : India (Himalayas), Nepal, Tibet, China.

**L. kashyapii** (Mehra) Mehra in Bir, Res. Bull. (N. S.) Punjab Univ. 13 : 24. 1962. *Polypodium kashyapii* Mehra in Ferns of Mussorie, Punjab. Univ. Publ. 24. 1939.

*Distrib.* : India (Himalayas).

**L. kuchenensis** (Wu) Ching, Bull. Fan Mem. Inst. Biol. 4 : 69. 1933. *Polypodium kuchenensis* Wu in Wu *et al*, Polypod. Yaoshan. 276. t. 129. 1932.

*Distrib.* : India (Eastern Himalayas), China.

**L. leiopteris** (Kunze) Bir & Tirkha, Amer. Fern Journ. 64 : 54. f. 21-26. 1974. *Polypodium leiopteris* Kunze, Linnaea 23 : 279, 319. 1859. *Pleopeltis scolopendrium* (D. Don) Alston & Bonner, Candollea 15 : 207. 1956.

*Distrib.* : India (Himalayas).

**L. longifolius** (Bl.) Holtt. Fl. Malaya II. 151. 1954. *Grammitis longifolia* Bl. Enum. Pl. Jav. 119. 1828. *Pleopeltis longifolia* (Bl.) Bedd. Handb. Ferns Brit. India 349. t. 196. 1883.

*Distrib.* : North - East India, Burma, Malay Peninsula, Singapore, Malay Islands, Philippines.

**L. loriformis** (Wall. ex Mett.) Ching, Bull. Fan, Mem Inst. Biol. Bot. 4 : 81. 1933. *Polypodium loriforme* Wall. ex. Mett. Poly. 92. n. 164. 1857. *Pleopeltis linearis* var. *steniste* (Clarke) Bedd. Handb. Ferns Brit. India 347. 1883.

*Distrib.* : India (Himalayas), China.

**L. macrocarpus** (Willd.) Ching, Bull. Fan Mem Inst. Biol. Bot. 4 : 80. 1933. *Polypodium macrocarpum* Willd. in Linn. Sp. Pl. 5 : 147. 1810. *Pleopeltis lepidota* Bedd. Ferns South. India 60. t. 181. 1865. (*nom. illegit*).

*Distrib.* : South India, Sri Lanka.

**L. macrosphaerus** ((Bak). Ching, Bull Fan Mem. Inst. Biol. Bot. 4 : 73. 1933. var. **macrosphaerus**. *Polypodium macrosphaerum* Bak. in Christ Bull. Herb. Boiss. II. 3 : 509. 1903. *Pleopeltis macrosphaera* (Bak.) Panigr. & Patn. Proc. Natn. Acad. Sci. India B. 34 : 481. 1964.

*Distrib.* : India (Eastern India & Eastern Himalayas), China.

**L. macrosphaerus** var. **asterolepis** (Bak.) Dixit, comb. nov. *Polypodium asterolepis* Bak. Journ. Bot. Brit. & For. 26 : 230. 1880. *Pleopeltis macrosphaera* var. *asterolepis* (Bak.) Panigr & Patn. Proc. Natn. Acad. Sci. India B. 34 : 482. f. 1-5 1964.

*Distrib.* : Eastern India, Burma, China.

**L. nudus** (Hook.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 83. 1933.



*Pleopeltis nuda* Hook. Exot. Fl. 1 : t. 63. 1823. *P. wightiana* (Thw.) Bedd. Ferns South. India 60. t. 180. 1865. *P. linearis sensu* Bedd. Handb. Ferns Brit. India 346. 1883 (*pro parte*) ; non *Polypodium lineare* Thunb.

*Distrib.* : Throughout India in mountainous regions, Sri Lanka, Malaya Peninsula, Malay Islands, China, Japan, Central & South Africa & its Islands.

*L. oligolepidus* (Bak.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 80. 1933. *Polypodium oligolepidum* Bak. Gard. Chron. n. s. 14 : 594. 1880.

*Distrib.* : India (N. W. Himalayas), China.

*L. oosphaerus* (C. Chr.) Ching, Bull. Fan. Mem. Inst. Biol. Bot. 4 : 73. 1933. *Polypodium oosphaerium* C. Chr. Contr. Nat. Herb. 26 : 334. t. 29. 1931.

*Distrib.* : India (N. W. Himalayas), China.

*L. pseudonudus* Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 83. 1933.

*Distrib.* : E. India, Burma, China.

*L. pteropus* (Bl.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 77. 1933. *Pleopeltis pteropus* Bl. Enum. Pl. Jav. 168. t. 76. 1828 ; Bedd. Handb. Ferns Brit. India 359. t. 203. 1883. *Polypodium tridactylon* Wall. ex Hook. & Grev. Icon. Fil. t. 209. 1831 ; Bedd. Ferns Brit. India t. 11. 1865. *Kaulinia pteropus* (Bl.) Nayar, Taxon 13 : 67. 1968.

*Distrib.* : North East India, Bhutan, Bangladesh, Malaya Peninsula, Philippines, S. China.

*L. pteropus* var. *minor* (Bedd.) Dixit, comb. nov. *Pleopeltis pteropus* var. *minor* Bedd. Ferns South. India t. 179. 1865 ; Handb. Ferns Brit. India 361. t. 204. 1883. *Kaulinia pteropus* var. *minor* (Bedd.) Nayar & Kaur, Comp. to Bedd. Handb. 87. 1974.

*Distrib.* : South India, Sri Lanka.

*L. sordidus* (C. Chr.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 79. 1933. *Polypodium sordidum* C. Chr. Contr. U. S. Nat. Herb. 26 : 320. 1931.

*Distrib.* : E. India, Burma, China.

*L. subconfluens* Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 85. 1933.

*Distrib.* : Eastern India and Eastern Himalayas, China, Thailand.

**L. sublinearis** (Bak. ex Takeda) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 78. 1933. *Polypodium sublineare* Bak. ex Takeda in Notes. Royal Bot. Gard. Edinb. 8 : 276. 1915.

*Distrib.* : India (Himalayas), Burma, China, Thailand, Indo-China.

**L. suboligolepidus** Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 77. 1933,

*Distrib.* : India (N. W. Himalayas), China.

**L. thunbergianus** (Kaulf.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 88. 1933. *Pleopeltis thunbergiana* Kaulf. Wesen. Farrnkr. 113. 1827. *Polypodium lineare* Thunb. Fl. Jap. 335. 1784 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 558. 1881 (*pro parte*).

*Distrib.* : India (Himalayas), China, Korea, Indo China, Formosa, Philippines.

**L. ussuriensis** (Regel & Mack.) Ching, Bull. Fan Mem. Inst. Biol. 4 : 91. 1933 ; Bir & Tirkha, Bull. Bot. Surv. India 11 : 268. 1969. *Pleopeltis ussuriensis* Regel & Mack. Mem. Acad. Sci. Petersb. VII. 44 : 175. 1861.

*Distrib.* : India (Himalayas), China.

**Leptochilus** Kaulf. Enum. Fil. 147. 1824 ; Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 340. 1933.

Type : **L. axillaris** (Cav.) Kaulf. Enum. Fil. 147. t. 1. f. 10. 1824.

**L. axillaris** (Cav.) Kaulf. Enum. Fil. 147. t. 1. f. 10. 1824 ; *Acrostichum axillare* Cav. Anal. Nat. 1 : 101. 1799. *Gymnopteris variabilis* var. *axillaris* (Cav.) Bedd. Ferns Brit. India t. 271. 1868 ; Handb. Ferns Brit. India 430. 1883.

*Distrib.* : South India, plains of Bengal and Assam, Bangladesh, Burma.

**L. laciniatus** (Hook.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 344. 1933. *Acrostichum variabile* Hook. var. *laciniatum* Hook. Sp. Fil. 5 : 255. 1864. *Gymnopteris feei* var. *pinnatifida* Bedd. Ferns South. India t. 273. 1864. *Gymnopteris feei* var. *triloba* Bedd. Ferns Brit. India t. 273. 1864.

*Distrib.* : India (Eastern Himalayas), China, Sri Lanka.

**L. lanceolatus** Fée, Acrost. 87. t. 47. 1845. *Gymnopteris feei* Moore, Ind. Fil. XXX. 1857 ; Bedd. Ferns South. India t. 48. 1864. (f. *typica*). *Gymnopteris variabilis* var. *lanceolata* Bedd. Handb. Ferns. Brit. India 429. 1883. *G. lanceolata* Bedd. Ferns Brit. India. Suppl. 26. 1876.

*Distrib.* : South India, Sri Lanka, Burma

**Marginaria** Bory, Dict. Class d' Hist. nat. 6 : 587. 1824 ; 10 : 176. 1826.

Lectotype : **M. polypodioides** (L.) Tidstr. Torrey. 5 : 171. f. 1. 1905.

**M. macrocarpa** (Bory ex Willd.) Nayar & Kaur, Comp. to Bedd. Handb. Ferns Brit. India 86. 1974. *Polypodium macrocarpum* Bory ex Willd. in Linn. Sp. Pl. 5 : 147. 1810.

*Distrib.* : Eastern India, China.

**Metapolypodium** Ching, Acta Phytotax. Sin. 16 (4) : 28. 1976.

Type : **M. manmeiense** (Christ) Ching, Acta Phytotax. Sin. 16 (4) : 29. 1978.

**M. manmeiense** (Christ) Ching, Acta Phytotax. Sin. 16 (4) : 29. 1978. *Polypodium manmeiense* Christ, Bull. Herb. Boiss. 6 : 870. 1898.

*Distrib.* : India (Sikkim), China.

**Microsorium** Link, Hort. Reg. Bot. Berol. 2 : 110. 1833 ; Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 293. 1933 ; Nayar, Bull. Nation. Bot. Gard. Lucknow no. 58. 11. 1961.

Type : **M. punctatum** (L.) Copel. Univ. Calif. Publ. Bot. 16 : 111. 1929.

**M. alternifolium** (Willd.) Copel, Gen. Fil. 197. 1947. *Polypodium alternifolium* Willd. in L. Sp. Pl. 5 : 168. 1810. *Pleopeltis nigrescens* Bl. Enum. Fil. 127. 1828 ; Bedd. Handb. Ferns Brit. India 367. t. 208. 1883. *P. longissima* Bedd. Ferns. South. India t. 176. 1865.

*Distrib.* : India (Western ghats, plains of Assam), Sri Lanka, Cultivated with choice in the gardens.

**M. cuspidatum** (D. Don) Tagawa in Hara's Fl. East. Himalaya 495. 1966. *Polypodium cuspidatum* D. Don, Prod. Fl. Nepal. 2. 1825. *P. lucidum* Roxb. ex Griff. Calc. Journ. Nat. Sci. 4 : 486. 1844. *P. leiorrhizum* Wall. ex Mett. Fil. Lips. 37. t. 25. f. 7. 1856 ; Bedd. Ferns South. India t. 174. 1865. *Pleopeltis leiorrhiza* (Wall. ex Mett.) Moore, Ind. Fil. 346. 1862 ; Bedd. Handb. Ferns Brit. India 372. 1883.

*Distrib.* : North India to S.W. China, Tonkin, Laos.

**M. dilatatum** (Bedd.) Sledge, Bull. Brit. Mus. (N.H.) Bot. 2 : 143.

1960. *Pleopeltis dilatata* Bedd. Ferns Brit. India t. 122. 1866 ; Handb. Ferns Brit. India 367. 1883.

*Distrib.* : North India to S.W. China, Sri Lanka, Malaya Peninsula, Samoa.

*M. fortunei* (Moore) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 304 1933. *Drynaria fortunei* Moore, Gard. Chron. 1855 : 708. 1855.

*Distrib.* : India (Eastern Himalayas), Bhutan, Burma, Tonkin, China, Formosa.

*M. heterocarpum* (Bl.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 295. 1933. *Grammitis heterocarpa* Bl. Enum. Pl. Jav. 2 : 118. 1828 ; 167. 1829.

*Distrib.* : South India, Java, Celebes.

*M. hymenodes* (Kunze) Ching, Bull. Fan Mem. Inst. Biol. 4 : 301. 1933. *Polypodium hymenodes* Kunze in Linnaea 23 : 279, 319. 1850. *Polypodium superficiale* Bl. Enum. Pl. Jav. 123. 1828 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 557. 1880 (excl. var.). *Polypodium superficiale* var. *semilinearis* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 558. 1880. *Pleopeltis superficialis* Bedd. Handb. Ferns Brit. India 350. 1883.

*Distrib.* : India (Himalayas), Japan, Korea, China, Malaya Islands, Queensland.

*M. insigne* (Bl.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 4 : 311. 1933. *Polypodium inisgne* Bl. Enum. Pl. Jav. 137. 1828. *Pleopeltis inisgnis* (Bl.) Bedd. Handb. Ferns Brit. India 365. t. 207. 1883.

*Dsitrib.* : India (Great Nieobar) Malaya, Malay Islands.

*M. linguaeforme* (Mett.) Copel. Univ. Calif. Publ. Bot. 16 : 116. 1929 ; Nayar & Madhusoodan, Journ. Linn. Soc. 75 : 283. 1977. *Polypodium linguaeforme* Mett. Ann. Lugd. Bat. 2 : 228. 1866.

*Distrib.* : South India, Malesian Islands.

*M. membranaceum* (D. Don) Ching, Bull. Fan Mem. Inst. Biol. 4 : 309. 1933. *Polypodium membranaceum* D. Don, Prod. Fl. Nepal 2. 1925 ; Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 580. 1880. *Pleopeltis grandifolia* Bedd. Ferns South. India t. 177. 1865. *P. membraancea* Moore, Ind. Fil. 191. 1859 ; Bedd. Handb. Ferns Brit. India 335. 1883. *Polypodium heterocarpum* (Bl.) Mett. Fil. Lips. 37. t. 25. f. 24 - 25. 1856 ; Bedd. erns South. India t. 177. 1865.

*Distrib.* : Throughout India in mountainous regions, Sri Lanka, Nepal, China.

**M. phyllomanes** (Christ) Koids. Acta Phytotax. Geobot. 5 : 50. 1936. *Polypodium phyllomanes* Christ, Bull. Acad. Geogr. Bot. Mans. 210. 1902. *Pleopeltis ovata* Bedd. Handb. Ferns Brit. India 354. t. 200. 1883.

*Distrib.* : India (Meghalaya, Sikkim), Nepal, Bhutan.

\***M. pteropus** (Bl.) Copel. Univ. Calif. Publ. Bot. 16. 112. 1929. *Polypodium pteropus* Bl. Enum. Pl. Jav. ad. 3. 1828 ; Fl. Jav. Fil. 168. t. 76. 1829 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 562. 1880 ; Bedd. Handb. Ferns Brit. India 360. 1883. *Pleopeltis pteropus* Moore, Ind. Fil. LXXVIII 1867 ; Bedd. Handb. Ferns. Brit. India 359. t. 203. 1883. *Polypodium tridactylon* Wall. ex Hook. & Grev. Icon. Fil. 6. 209. 1831 ; Bedd. Ferns Brit. India t. 11. 1865.

*Distrib.* : India (North India, Sikkim, Meghalaya) Nepal, Bhutan, Bangladesh, Malay Peninsula. Malesia, Formosa.

\***M. pteropus** var. **minor** (Bedd.) Balakr. Bull. Bot. Surv. India 22 : 137. 1980. *Pleopeltis pteropus* var. *minor* Bedd. Handb. Ferns. Brit. India 361. 1833.

*Distrib.* : India (South India), Andamans, Sri Lanka.

**M. punctatum** (L.) Copel. Orient. Gen. Polyp. in Univ. Calif. Publ. Bot. 16 : 110. 1929. *Acrostichum punctatum* L. Sp. Pl. ed. II. 2 : 1524. 1763. *Pleopeltis punctata* Bedd. Ferns Brit. India, Suppl. 22. 1876 ; Handb. Ferns Brit. India 357. 1883. *Pleopeltis irioides* Moore, Ind. Fil. LXXVII. 1857 ; Bedd. Ferns South. India t. 178. 1864.

*Distrib.* : South India, warmer parts of Asia, Africa to Polynesia, Formosa to S. China.

**M. rubidum** (Kunze) Copel. Gen. Fil. 197. 1947. *Polypodium rubidum* Kunze, Bot. Zeit. 117. 1848. *Pleopeltis longissima* Bl. Enum. Fil. 127. 1828 ; Bedd. Ferns Brit. India, Suppl. 388. 1876 ; Handb. Ferns Brit. India 366. 1883.

*Distrib.* : India (Plains of Assam), Bangladesh, Philippines, Formosa, Malaya Islands.

**M. scolopendrium** (Burm.) Copel. Gen. Fil. 195. 1947. *Polypodium scolopendria* Burm. Fl. Ind. 232. 1968. *Pleopeltis phymatodes* Moore, Ind.

\*Some workers still prefer to recognise these taxa under *Microsorium*. Thorough revisionary studies of the genera *Lepisorus*, *Microsorium* and *Pyrrosia* are required urgently on Indian basis for the better understanding.

Fil. LXXVIII, 1857 ; Bedd. Ferns South. India t. 173. 1863 ; Handb. Ferns Brit. India 366. 1883.

*Distrib.* : Throughout the tropics of the old world, usually cultivated in the gardens.

**M. superficiale** (Bl.) Ching, Bull. Fan. Mem. Inst. Biol. 4 : 299. 1933. *Polypodium superficiale* Bl. Jav. Fil. 130. t. 56. f. 1. 1828. ; Bedd. Ferns Brit. India t. 75. 1865. *Pleopeltis superficiale* (Bl.) Bedd. Handb. Ferns Brit. India 350. 1883.

*Distrib.* : India (Eastern and Western India) Burma, Nepal, Bhutan, China. Japan, Corea, Singapore, Java, Queensland.

**M. zippelii** (Bl.) Ching, Bull. Fan Mem Inst. Biol. 4 : 308. 1933. *Polypodium zippelii* Bl. Enum. Pl. Jav. 172. t. 80. 1828 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 561. 1880. *Pleopeltis heterocarpa* Bedd. Ferns Brit. India t. 319. 1869. *P. zippelii* Moore, Ind. Fil. CCCVIII. 1862 ; Bedd. Handb. Ferns Brit. India 357. 1883.

*Distrib.* : India (Himalayas), Bhutan, Nepal, Java, Philippines, Malesia, China, Indo China.

**Neocheiropteris** Christ, Bull. Soc. Bot. France 52 mem 1 : 21, 1905.

Type : **N. palmatodentata** (Bak.) Christ, Bull. Soc. Bot. France 52. mém. 1 : 21. 1905.

**N. normalis** (D. Don) Tagawa, Journ. Jap. Bot. 27 : 217. 1952. *Polypodium normale* D. Don, Prod. Fl. Nepal. 1. 1825. *Pleopeltis normalis* (D. Don) Moore, Ind. Fil. CCCXLVII. 1862 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 558. 1880 ; Bedd. Ferns Brit. India t. 10. 1865 ; Handb. Ferns Brit. India 353. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan, Burma, China.

**N. ovatus** (Wall. ex Hook. & Grev.) Nayar & Kaur, Comp. to Bedd. Handb. Ferns Brit. India 86. 1974. *Polypodium ovatum* Wall. ex Hook & Grev. Icon. Pl. 41. 1827 ; Bedd. Ferns Brit. India t. 157. 1865. *Pleopeltis ovata* (Wall. ex Hook. & Grev.) Bedd. Handb. Ferns Brit. India 354. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan.

**Paraleptochilus** Copel. Gen. Fil. 198. 1947.

Type : **P. decurrens** (Bl.) Copel. Gen. Fil. 198. 1947.

**P. decurrens** (Bl.) Copel. Gen. Fil. 198. 1947. *Leptochilus decurrens* Bl. Enum. Pl. Jav. 2 : 206. 1828. *Gymnopteris variabilis* (Hook.) Bedd.

Ferns Brit. India t. 272. 1868 ; Handb. Ferns Brit. India 429. t. 358. 1883. *Acrostichum variable* Hook. Sp. Fil. 5 : 277. 1864 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 578. 1880.

*Distrib.* : India (Sikkim, Eastern India, Cachar, S. India), Burma, Polynesia, Malesia, Indo China, S.W. China.

**Phlebodium** (R.Br.) J. Sm. in Hook. Journ. Bot. 4 : 58. 1841 ; Bhargavan & Nair, Journ. Bomb. Nat. Hist. Soc. 77 (3) : 540. t. 1. 1980.

Type : **P. aureum** (L.) J. Sm. Lond. Journ. Bot. 4 : 59. 1841.

**P. aureum** (L.) J. Sm. Lond. Journ. Bot. 4 : 59. 1841. *Polypodium aureum* L. Sp. Pl. 2 : 1087. 1753.

*Distrib.* : India (Tamil Nadu), Trop. America.

**Phymatopteris** Pic. Ser. Webbia 28 : 460. 1973.

Type : **P. palmata** (Bl.) Pic. Ser. Webbia 28 : 460. 1973.

**P. crenato-pinnata** (Clarke) Pic. Ser. Webbia 28 : 461. 1973. *Polypodium crenato-pinnatum* Clarke Journ. Linn. Soc. Lond. 25 : 99. t. 42. 1889. *Pleopeltis crenato-pinnata* (Clarke) Bedd. Handb. Ferns. Brit. India Suppl. 96. 1892.

*Distrib.* : India (Manipur) (China. Yunnan).

**P. chrysotricha** (C. Chr.) Pic. Ser. Webbia 28 : 461. 1973. *Polypodium chrysotrichum* C. Chr. Contr. U.S. Nation. Herb. 26 : 320. t. 23. 1931. *Crypsinus chrysotrichus* (C. Chr.) Tagawa, Acta Phytotax. Geobot. 14 : 193. 1952 ; Balakr. et Chowdh. Sci. & Cult. 33 : 62. 1967.

*Distrib.* : India (Himalayas, Andaman & Nicobar Islands), China, Japan.

**P. ebenipes** (Hook.) Pic. Ser. Webbia 28 : 462. 1973. *Polypodium ebenipes* Hook. Sp. Fil. 5 : 88. 1864 ; Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 564. 1880. *Pleopeltis ebenipes* (Hook.) Bedd. Ferns Brit. India t. 138. 1867 ; Handb. Ferns. Brit. India 363. 1883. *Phymatodes ebenipes* (Hook.) Ching, Contr. Inst. Bot. Nat. Acad. Peiping 2 : 86. 1933. *Crypsinus ebenipes* (Hook.) Copel. Gen. Fil. 206. 1947.

*Distrib.* : India (Himalayas from Gurhwal to Bhutan), China.

**P. echinospora** (Tagawa) Pic. Ser. Webbia 28 (2) : 462. 1973. *Phymatodes echinospora* Tagawa, Acta Phytotax. Geobot. 3 : 95. 1934. *Crypsinus echinosporus* (Tagawa) Tagawa, Acta Phytotax. Geobot. 3 : 95. 1934.

*Distrib.* : India (Himalayas), Japan.

**P. engleri** (Luer ss.) Pic. Ser. Webbia 28 : 462. 1973. *Polypodium engleri* Luer ss. in Engl. Bot. Jahrb. Syst. 4 : 361. 1883. *Crypsinus engleri* (Luer ss.) Copel. Gen. Fil. 206. 1947.

*Distrib.* : India (Himalayas), Japan.

**P. erythrocarpa** (Mett. ex Kuhn) Pic. Ser. Webbia 23 : 462. 1973. *Polypodium erythrocarpum* Mett. ex Kuhn, Linnaea 36 : 135. 1869 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. I : 565. 1880. *Goniophlebium erythrocarpum* (Mett. ex Kuhn) Bedd. Ferns Brit. India Suppl. 382. 1867 ; Handb. Ferns Brit. India 319. t. 171. 1883. *Phymatodes erythrocarpa* (Mett. ex Kuhn) Ching, Contr. Inst. Bot. Nat. Acad. Peiping 2 : 80. 1933. *Crypsinus erythrocarpus* (Mett. ex Kuhn) Tagawa in Hara's Fl. East. Himal. 491. 1966.

*Distrib.* : India (Himalayas), China.

**P. griffithiana** (Hook.) Pic. Ser. Webbia 28 : 462. 1973. *Polypodium griffithianum* Hook. Icon. Pl. 10 : t. 951. 1854 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 560. 1880. *Pleopeltis griffithiana* (Hook.) Bedd. Ferns Brit. India t. 158. 1867 ; Handb. Ferns. Brit. India 354. t. 199. 1883. *Crypsinus griffithianus* (Hook.) Copel. Gen. Fil. 206. 1957.

*Distrib.* : India (Sikkim, Meghalaya), Bhutan.

**P. hastata** (Thunb.) Pic. Ser. Webbia 28 : 462. 1973 *Polypodium hastatum* Thunb. Fl. Jap. 335. 1784 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 562. 1880. *Pleopeltis malacodon sensu* Bedd. Ferns Brit. India Suppl. 23. t. 387. 1876.

*Distrib.* : Throughout India in mountainous regions, China.

**P. malacodon** (Hook.) Pic. Ser. Webbia 28 : 463. 1973. *Polypodium malacodon* Hook. Sp. Fil. 5 : 87. 1864 : Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 564. 1880. *Pleopeltis malacodon* (Hook.) Bedd. Handb. Ferns Brit. India 363. 1883. *Crypsinus malacodon* (Hook.) Copel. Gen. Fil. 206. 1947.

*Distrib.* : India (Himalayas), Nepal, Bhutan, W. China.

**P. montana** (Sledge) Pic. Ser. Webbia 28 : 463. 1973. *Crypsinus montanus* Sledge. Bull. Brit. Mus. (N.H.) Bot. 2 : 145 1960. *Pleopeltis oxyloba* Bedd. Ferns South. India 59. t. 175. 1865 (*pro parte*), non *Polypodium oxylobum* Wall. ex Kunze. *Pleopeltis hastata* Bedd. Handb. Ferns Brit. India 362. 1883 (*pro parte*) ; non *Polypodium hastatum* Thunb.

*Distrib.* : South India, Sri Lanka.

**P. nigrovenia** (Christ) Pic. Ser. Webbia 28 : 463. 1973. *Polypodium shen-siense* var. *nigrovenium* Christ, Bull. Acad. Geogr. Bot. 15 : 106.



1906. *Crypsinus nigrovenius* (Christ.) K. Iwat, in Hara's Fl. East. Himal. 3rd report, Univ. Tokyo Mus. Bull. no. 8. 197. 1975.

*Distrib.* : India (Himalayas), Nepal, S.W. China, Japan, Vietnam.

**P. oxyloba** (Wall. ex Kunze) Pic. Ser. Webbia 28 : 464. 1973. *Polypodium oxylobum* Wall. ex Kunze in Linnaea 24 : 255 1851. *Pleopeltis hastata sensu* Bedd. Handb. Ferns, Brit. India 362. 1883 (*pro parte*). *Polypodium hastatum* var. *oxyloba* Clakre, Trans. Linn. Soc. Lond. II. Bot. 1 : 583. 1880 (*pro parte*). *Crypsinus oxylobus* (Wall. ex Kunze) Sledge, Bull. Brit. Mus. (N.H.) Bot. 2 : 145. 1960.

*Distrib.* : India (Himalayas), S.W. China.

**P. quasidivariata** (Hayata) Pic. Ser. Webbia 28 : 464. 1973. *Polypodium quasidivariatum* Hayata, Journ. Coll. Sc. Univ. Tokyo 30 : 446. 1911. *Crypsinus quasidivariatus* (Hayata) Copel. Gen. Fil. 206. 1947.

*Distrib.* : India (Himalayas east to China), Formosa.

**P. rhynchophylla** (Hook.) Pic. Ser. Webbia 28 : 464. 1973. *Polypodium rhynchophyllum* Hook. Icon Pl. 10 : t. 954. 1854. *Pleopeltis rhynchophylla* (Hook.) Bedd. Ferns Brit. India t. 9. 1865 ; Handb. Ferns Brit. India 353. t. 198. 1883. *Crypsinus rhynchophyllus* (Hook.) Copel. Gen. Fil. 206. 1947.

*Distrib.* : India (Meghalaya), Burma, Bhutan, North Thailand, Laos, Vietnam, China.

**P. stewartii** (Bedd.) Pic. Ser. Webbia 28 : 464. 1973. *Pleopeltis stewartii* Bedd. Ferns Brit. India t. 204. 1866. *Pleopeltis malacodon* var. *majus* Bedd. Handb. Ferns Brit. India 363. 1883. *Polypodium cyrtolobum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 563. t. 83. 1880. *Crypsinus Stewartii* (Bedd.) Copel. Gen. Fil. 206. 1947.

*Distrib.* : India (Himalayas), Nepal, Bhutan, W. China.

**P. stracheyi** (Ching) Pic. Ser. Webbia 28 : 464. 1973. *Phymatodes stracheyi* Ching, Contr. Inst. Bot. Nat. Acad. Peiping 2 : 83. 1933.

*Distrib.* : India (Himalayas), China.

**Phymatosorus** Pic. Ser. Webbia 28 : 457. 1973.

Type : **P. scolopendria** (N.L. Burm.) Pic. Ser. Webbia 28 : 457. 1973.

**P. longissimus** (Bl.) Pic. Ser. Webbia 28 : 459. 1973. *Polypodium longissimum* Bl. Enum. Pl. Jav. 2 : 127. 1828. *Pleopeltis longissima* (Bl.) Bedd. Ferns Brit. India Suppl. 388. 1876 ; Handb. Ferns Brit. India 366. 1883.

*Distrib.* : India (Eastern India), Bangladesh, Philippines, Formosa, Malaya Islands.

**P. lucidus** (Roxb. ex Griff.) Pic. Ser. Webbia 28 : 459. 1973. *Polypodium lucidum* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 486. 1844. *Pleopeltis leiorrhiza* Moore, Ind. Fil. 346. 1862 ; Bedd. Ferns South. India t. 174. 1863 ; Handb. Ferns Brit. India 372. 1883. *Polypodium leiorrhizum* Wall. ex Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 367. 1880.

*Distrib.* : India (Himalayas, S. India, Western Ghats).

**P. nigrescens** (Bl.) Pic. Ser. Webbia 28 : 459. 1973. *Polypodium nigrescens* Bl. Enum. Pl. Jav. 2 : 126. 1828. *Pleopeltis nigrescens* (Bl.) Bedd. Handb. Ferns Brit. India 367. t. 208. 1883.

*Distrib.* : South India, Sri Lanka.

**P. scolopendria** (N. L. Burm.) Pic. Ser. Webbia 28 : 460. 1973. *Polypodium scolopendrium* N. L. Burm. Fl. Ind. 232. 1768. *Pleopeltis phymatodes* (L.) Bedd. Ferns South. India t. 173. 1865 ; Handb. Ferns Brit. India 366. t. 208. 1883.

*Distrib.* : Throughout the tropics of the old world, Sri Lanka, Malay Peninsula.

**Polypodiastrum** Ching, Acta Phytotax. Sin. 16 (4) : 28. 1978.

Type : **P. argutum** (Wall. ex Hook.) Ching, Acta Phytotax. Sin. 16 (4) : 28. 1978.

**P. argutum** (Wall. ex Hook.) Ching, Acta Phytotax. Sin. 16 (4) : 28. 1978. *Polypodium argutum* Wall. ex Hook. Sp. Fil. 5 : 32. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 551. 1880. *Goniophlebium argutum* (Wall. ex Hook.) J. Sm. in Hook. Gen. ed. t. 51. 1840 ; Bedd. Ferns Brit. India t. 6. 1865 ; Handb. Ferns Brit. India 323. t. 174. 1883.

*Distrib.* : India (Himalayas from Kashmir to Bhutan), China.

**Polypodioides** Ching, Acta Phytotax. Sin. 16 (4) 26 : 1978.

Type : **P. amoena** Wall. ex Ching, Acta Phytotax Sin. 16 (4) : 27. 1978.

**P. atkinsonii** (C. Chr.) Ching, Acta Phytotax. Sin. 16 (4) : 27. 1978. *Polypodium atkinsonii* C. Chr. Ind. Fil. 511. 1905. *Goniophlebium hender-sonii* Bedd. Ferns Brit. India Suppl. 21. t. 383. 1876 ; Handb. Ferns Brit. India 320. 1883.

*Distrib.* : India (Himalayas), Nepal.

**P. lachnopus** (Wall. ex Hook.) Ching, Acta Phytotax. Sin. 16 (4) : 27. 1978. *Polypodium lachnopus* Wall. ex Hook. Icon. Pl. t. 952. 1854. *Goniophlebium lachnopus* (Wall. ex Hook.) J. Sm. in Hook. Gen. ad. t. 51. 1840 ; Bedd. Ferns Brit. India t. 163. 1867 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 551. 1880 ; Bedd. Handb. Ferns Brit. India 319. 1883.

*Distrib.* : India (Himalayas from Kashmir to Bhutan).

**P. microrhizoma** (Clarke) Ching, Acta Phytotax. Sin. 16 (4) : 27. 1978. *Polypodium microrhizomum* Clarke in Hook. et. Bak. Syn. Fil. 511. 1874. *Goniophlebium microrhizoma* (Clarke) Bedd. Ferns Brit. India Suppl. t. 384. 1876 ; Handb. Ferns Brit. India 322. 1883.

*Distrib.* : India (Kashmir to Bhutan), China.

**P. subamoenus** (Clarke) Ching, Acta Phytotax. Sin. 16 (4) : 27. 1978. *Polypodium subamoena* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 550. t. 82. f. 2. 1880. *Goniophlebium subamoenum* (Clarke) Bedd. Handb. Ferns Brit. India 317. 1883.

*Distrib.* : India (Himalayas), Nepal.

**P. wattii** (Bedd.) Ching, Acta Phytotax. Sin. 16 (4) : 27. 1978. *Polypodium nipponicum* var. *wattii* Bedd. in Journ. Bot. 235. 1888. Bedd. Handb. Ferns Brit. India Suppl. 90. 1892.

*Distrib.* : India (Manipur).

**Polypodium** L. Sp. Pl. 2 : 1082. 1753.

Lectotype : **P. vulgare** L. Sp. Pl. 2 : 1085. 1753.

**P. beddomei** Bak. ex Hook. & Bak. Syn. Fil. ed. II. 344. 1874. *Goniophlebium molle sensu* Bedd. Ferns Brit. India t. 206. 1867 ; Handb. Ferns Brit. India 322. 1883. (*non* Schreb 1771 ; *nec.* Jacq. 1789).

*Distrib.* : India (Himalayas), Malay Peninsula, Burma.

**P. vulgare** L. Sp. Pl. 2 : 1085. 1753.

*Distrib.* : India (Himalayas), China, Japan, Europe, Africa, New-Zealand.

**Pseudodrynaria** C. Chr. et Ching, Sunyat. 6 : 10. 1941.

Type : **P. coronans** (Wall. ex Mett.) Ching, Sunyat. 6 : 10. 1941.

**P. coronans** (Wall. ex Mett.) Ching, Sunyat. 6 : 10. 1941. *Polypodium coronans* Wall. ex Mett. Pol. 121. n. 242. t. 3 f. 40, 41. 1857. *Drynaria coronans* J. Sm. in Journ. Bot. 4 : 61. 1841 ; Bedd. Ferns Brit. India t. 13. 1865 ; Handb. Ferns Brit. India 338. t. 187. 1883.

*Distrib.* : Throughout India, China, Nepal, Burma, Bangladesh, Malay Peninsula, Hongkong, Formosa.

**Pyrrosia** Mirb. in Lam. et Mirb. Hist. Nat. Veg. 5 : 91. 1802. Ching, Bull. Chin. Bot. Soc. 1 (1) : 36. 1935 ; Nayar & Chandra., Bull. Nation. Bot. Gard. Lucknow no. 117. 60. 1965.

Type : **P. lingua** (Thunb.) Farwell, Amer. Midl. Nat. 12 : 302. 1931.

**P. acrostichoidea** (Forst.) Ching, Bull. Chin. Bot. Soc. 1 : 69. 1935. *Polypodium aorostichoides* Forst. Prod. 81. 1786. *Niphobolus acrostichoides* Bedd. Ferns. Brit. India t. 81. 1865 ; Handb. Ferns Brit. India 327. 1883.

*Distrib.* : S. India, Malesia, Polynesia, Sri Lanka extending to Queensland, China.

**P. adnascens** (Sw.) Ching, Bull. Chin. Bot. Soc. 1 : 45. 1935. *Polypodium adnascens* Sw. Syn. Fil. 25, 222. t. 2. f. 2. 1806. *Niphobolus adnascens* (Sw.) Kaulf. Enum. Fil. 124. 1824 ; Bedd. Handb. Ferns Brit. India 325. 1824 ; (*pro parte*).

*Distrib.* : India to S. China, Formosa, Malayasia to Polynesia.

**P. assimilis** (Bak.) Ching, Bull. Chin. Bot. Soc. 1 : 49. 1935. *polypodium assimilis* Bak. Journ. Bot. 1875 : 201. 1875.

*Distrib.* : India (Eastern Himalayas), China.

**P. beddomeana** (Gies.) Ching, Bull. Chin Bot. Soc. 1 : 68. 1935. *Niphobolus beddomeanus* Gies, Farngatt. Niph. 101. 1901. *Niphobolus costatus* Bedd. Ferns Brit. India t. 120. 1865. *Polypodium stigmatosum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 553. 1880. *Niphobolus stigmatosus* Bedd. Handb. Ferns Brit. India 328. 1883 (*pro parte*).

*Distrib.* : India (Himalayas), China.

**P. boothii** (Hook.) Ching, Bull. Chin. Bot. Soc. 1 : 66. 1935. *Polypodium boothii* Hook. Sp. Fil. 5 : 53. 1863 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 555. 1880. *Niphobolus boothii* (Hook.) Bedd. Ferns Brit. India t. 258. 1868.

*Distrib.* : India (Himalayas), Bhutan.

**P. ceylanica** (Gies.) Sledge, Bull. Brit. Mus. (N. H.) 2 : 134. 1960. *Niphobolus ceylanicus* Gies. Farngatt. Niph. 216. 1901.

*Distrib.* : South India, Sri Lanka.

**P. costata** (Presl ex Bedd.) Tagawa & Iwats. in Acta Phytotax. Geobot. 22 : 100. 1967. *Niphobolus costatus* Presl ex Bedd. Ferns Brit.

India t. 120. 1865. *Pyrrhosia beddomeana sensu* Tagawa in Hara's Fl. East. Himal. 498. 1966.

*Distrib.* : India (Himalayas), China, Burma, N. Thailand.

*P. flocculosa* (D. Don) Ching, Bull. Chin. Bot. Soc. 1 : 66. 1935. *Polypodium flocculosum* D. Don, Prod. Fl. Nepal. 1 : 1825. Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 554. 1880. *Niphobolus flocculosus* (D. Don) Bedd. Ferns Brit. India t. 162. 1867 ; Handb. Ferns Brit. India 331. t. 180. 1883.

*Distrib.* : India (Himalayas), Burma, Nepal, Bhutan, Annam, Tonkin, China.

*P. heteracta* (Mett. ex Kuhn) Ching, Bull. Chin. Bot. Soc. 1 : 57. 1935. *Polypodium heteractis* Mett. ex Kuhn in Linnaea 36 : 140. 1869 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 553. 1880. *Niphobolus heteractus* (Mett. ex Kuhn) J. Sm. Ferns Brit. & For. ed. 2. 296. 1877 ; Bedd. Handb. Ferns Brit. India 327. 1883. *N. lingua sensu* Bedd. Ferns Brit. India Suppl. 22. t. 385. 1876 (non Spr. 1827 ; Bedd. Ferns Brit. India t. 240. 1865).

*Distrib.* : India (Himalayas), Burma, S. W. China.

*P. laevis* (J. Sm.) Ching, Bull. Chin. Bot. Soc. 1 : 52. 1935. *Niphobolus laevis* J. Sm. in Bedd. Ferns Brit. India t. 161. 1866 ; Handb. Ferns Brit. India 325. 1883. *Polypodium jaintense* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 552. t. 82. f. 4. 1880.

*Distrib.* : India (Himalayas).

*P. lanceolata* (L.) Farwell, Amer. Midl. Nat. 12 : 245. 1931. *Acrostichum laaceolatum* L. Sp. Pl. 2 : 1067. 1753. *Polypodium adnascens* auct. Hook. & Bak. Syn. Fil. 349. 1867 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 552. 1880. *Niphobolus adnascens* Bedd. Handb. Ferns Brit. India 325. t. 176. 1883. (non Kaulf. 1824). *N. fissus sensu* Bedd. Ferns South. India t. 184. 1865. (non. Bl).

*Distrib.* : India (Himalayas), Sri Lanka, Polynesia, China.

*P. lingua* (Thunb.) Farwell, Amer. Midl. Nat. 12 : 302. 1931. *Acrostichum linguum* Thunb. Fl. Jap. 330. t. 33. 1784. *Niphobolus heteractis sensu* Bedd. Handb. Ferns Brit. India 327. 1883 (*pro parte*).

*Distrib.* : North East India, China, Japan, Formosa, Tonkin.

*P. macrocarpa* (Willd.) Kaulf. Enum. Fil. 245. 1824 ; Manickam Ninan, New Botanist 1 : 46. 1976. *Polypodium macrocarpum* Willd. in Linn. Sp. Pl. 5 : 147. 1810. *Polypodium lepidotum* Bedd. Ferns South. India 60. t. 181. 1864. *nom illejet*.

*Distrib.* : South India, Trop. America, Australia.

**P. mannii** (Gies.) Ching, Bull. Chin. Bot. Soc. 1 : 55. 1935. *Nipholobolus mannii* Gies. Farngatt. Niph. 107. 1901. *N. fissus* auct. Bedd. Handb. Ferns Brit. India 330. 1883 (*pro parte* ; non Bl. 1828), *N. floccigerus* Bedd. Ferns Brit. India Suppl. 22. t. 386. 1876.

*Distrib.* : North East to South India, Sri Lanka, Malaysia, Madagascar.

**P. mollis** (Kunze) Ching, Bull. Chin. Bot. Soc. 1 : 53. 1935. *Nipholobolus mollis* Kunze, Bot. Zeit. 6: 121. 1848. *N. fissus sensu* Bedd. Ferns Brit. India Corr. II 1870 ; Handb. Ferns Brit. India 330. 1883 (*pro parte. non* Bl. 1828). *N. porosus sensu* Bedd. Ferns South. India t. 183. 1863. *Polypodium fissum* Hook. et Bak. Syn. Fil. 351. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 554. 1880.

*Distrib.* : India (Himalayas), Sri Lanka, China, Burma, Java, Tonkin.

**P. nayariana** Ching & Chandra, Amer. Fern Journ. 54 : 62. 1964.

*Distrib.* : India (Manipur).

**P. nuda** (Gies.) Ching, Bull. Chin. Bot. Soc. 1 : 70. 1935. *Nipholobolus nudus* Gies. Farngatt. Niph. 149. 1901. *Polypodium adnascens sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 552. 1880 (*pro parte*). *Nipholobolus adnascens sensu* Bedd. Handb. Ferns Brit. India 325. 1883 (*pro parte*).

*Distrib.* : India (Himalayas), China.

**P. nummulariaefolia** (Sw.) Ching, Bull. Chin. Bot. Soc. 1 : 47. 1935. *Acrostichum nummulariaefolium* Sw. Syn. Fil. 191, 418. t. 2. f. 1. 1806. *Polypodium nummulariaefolium* Mett. Farngatt. Poly. 123. t. 3. f. 9, 10. 1857 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 553. 1880 ; Bedd. Ferns Brit. India t. 320. 1869. *Nipholobolus nummulariaefolius* J. Sm. Journ. Bot. 3 : 396. 1841 ; Bedd. Ferns. Brit. India. t. 320. 1869 ; Handb. Ferns Brit. India 334. 1883.

*Distrib.* : India (Himalayas), Bhutan. Bangladesh, Malaya, Philippines, China.

**P. obovata** (Bl.) Ching, Bull. Chin. Bot. Soc. 1 : 47. 1935. *Acrostichum obovatum* Bl. Enum. Pl. Jav. 102. 1828. *Polypodium nummulariaefolium* var. *obovatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 554. 1880.

*Distrib.* : North-East India, extending to Java.

**P. pannosa** (Mett.) Ching, Bull. Chin. Bot. Soc. 1 : 58. 1933. *Polypodium pannosum* Mett. apud Kuhn in Linnaea 36 : 141. 1869. *Nipho-*

*bolus panosus* (Mett.) Bedd. Ferns Brit. India Suppl. 22. 1876 ; Handb. Ferns Brit. India 328. t. 177. 1883. *Niphobolus lingua* Bedd. Ferns South. India t. 240. 1865 (*non* Spr. 1827).

*Distrib.* : India (Himalayas), Burma, Sri Lanka.

*P. pekinensis* (C. Chr.) Ching, Bull. Chin. Bot. Soc. 1 : 51. 1935. *Cyclophorus pekinensis* C. Chr. Ind. Fil. 200. 1905. *Polypodium davidii* Bak. Ann. Bot. 5 : 572. 1891.

*Distrib.* : India (Himalayas), China.

*P. stenophylla* (Bedd.) Ching, Bull. Chin. Bot. Soc. 1 : 55. 1935. *Niphobolus fissus* var. *stenophyllus* Bedd. Handb. Ferns Brit. India Suppl. 92. 1892. *Polypodium fissum* var. *floccigerum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 550. 1880.

*Distrib.* : (Eastern India), Bhutan.

*P. stictica* (Kunze) Holtt. Novit. Bot. Inst. Univ. Carol. Prag. 31. 1968. *Niphobolus Sticticus* Kunze in Linnaea 24 : 257. 1851.

*Distrib.* : S. India, Malay Peninsula.

*P. stigmosa* (Sw.) Ching, Bull. Chin. Bot. Soc. 1 : 67. 1935. *Polypodium stigmatosum* Sw. Schrad. Journ. Bot. 1800 (2) : 21. 1801 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 553. 1880 (*pro parte*). *Niphobolus stigmatosus sensu* Bedd. Handb. Ferns Brit. India 328. t. 178. 1883 (*pro parte*).

*Distrib.* : India (Himalayas, S. India), Nepal, Bhutan, Burma. Malesia, northward to Cochin - China.

*P. subfurfuracea* (Hook.) Ching, Bull. Chin. Bot. Soc. 1 : 68. 1935. *Polypodium subfurfuraceum* Hook. Sp. Fil. 5 : 52. 1863 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 553. 1880. *Niphobolus subfurfuraceus* Bedd. Ferns. Brit. India t. 259. 1868 ; Handb. Ferns Brit. India 329. 1883.

*Distrib.* : North - East India, Burma, Bhutan, China.

*P. subvelutina* (Christ) Ching, Bull. Chin. Bot. Soc. 1 : 50. 1935. *Niphobolus subvelutinus* Christ, Ann. Cons. Jard. Bot. Genève 7 - 8 : 331. 1904.

*Distrib.* : India (Himalayas)

*P. varia* (Kaulf.) Farwell, Amer. Midl. Nat. 12 : 302. 1931. *Niphobolus varius* Kaulf. Enum. Fil. 125. 1824. *N. adnascens sensu* Bedd. Handb. Ferns. Brit. India 325. 1883 (*pro parte*).

*Distrib.* : North - East India, Malesia to Polynesia.

**Thylacopteris** Kunze ex J. Sm. Hist. Fil. 87. 1875.

Type : **T. papillosa** (Bl.) J. Sm. Hist. Fil. 87. 1875.

**T. papillosa** (Bl.) J. Sm. Hist. Fil. 87. 1875. *Polypodium papillosum* Bl. Enum. Pl. Jav. 131. 1828.

*Distrib.* : India (Arunachal Pradesh), China.

**Tricholepidium** Ching, Acta Phytotax. Geobot. 29 : 41. 1978.

Type : **T. normale** (D. Don.) Ching, Acta Phytotax. Geobot. 29 : 41. 1978.

**T. normale** (D. Don) Ching, Acta Phytotax. Geobot. 29 : 41. 1978. *Polypodium normale* D. Don, Prod. Fl. Nepal 1. 1825. *Pleopeltis normalis* Moore, Ind. Fil. 347. 1848 ; Bedd. Handb. Ferns Brit. India 353. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan, Burma, S. W. China.

#### DIPTERIDACEA E. (Diels) Seward & Dale

**Dipteris** Reinw. Syll. Nov. Ratisb. 2 : 3. 1824.

Type : **D. conjugata** Reinw. Syll. Nov. Ratisb. 2 : 3. 1824

**D. wallichii** (R. Br.) Moore, Ind. Fil. 80. 1857 ; Bedd. Ferns Brit. India. t. 80. 1865 ; Handb. Ferns Brit. India 334. t. 184. 1883.

*Distrib.* : India (Arunachal Pradesh, Assam, Meghalaya), Bangladesh, China.

#### PLATYCERIACEAE (Nayar) Ching

**Platynerium** Desv. Mém. Linn. Soc. Paris 6 : 213. 1827.

Type : **P. alpicorne** Desv. Mém, Linn. Soc. Paris 6 : 213. 1827.

**P. alpicorne** Desv. Mém. Linn. Soc. Paris 6 : 213. 1827. *Acrostichum alpicorne* Wall. List no. 19. 1828 (*nom. nud.*) ex Bedd. Ferns Brit. India t. 108. 1865. *Platynerium wallichii* Hook. Gard. Chron. 1858 : 765. 1858 ; Bedd. Handb. Ferns Brit. India 445. t. 272. 1883 ; Suppl. 107. 1892.

*Distrib.* : India (Manipur), Burma, Malaya Peninsula.



## DRYNARIACEAE Ching

**Drynaria** (Bory) J. Sm. in Hook. Journ. Bot. 4 : 60. 1841 ; Nayar, Bull. Nation. Bot. Gard. Lucknow no. 56,9. 1961. *nom. cons.*

Type : **D. quercifolia** (L.) J. Sm. in Hook. Journ. Bot. 3 : 398. 1841.

**D. mollis** Bedd. Ferns Brit. India t. 216. 1867 ; Handb. Ferns Brit. India 341. t. 190. 1883.

*Distrib.* : India (N.W. Himalayas), China.

**D. propinqua** (Wall. ex Mett.) J. Sm. apud. Bedd. Ferns Brit. India t. 160. 1866; Handb. Ferns Brit. India. 339. t. 189. 1883. *Polypodium propinquum* Wall. ex Mett. in Abh. Senckneb. Naturf. Ges. 2 : 120. t. 3. f. 50. 1857. *Pleopeltis parishii* Bedd. Ferns Brit. India t. 135. 1867. *Drynaria parishii* (Bedd.) Bedd. Ferns Brit. India Suppl. 24. 1876.

*Distrib.* : India (Himalayas), Burma, China, Malay Peninsula, Malesian Islands.

**D. quercifolia** (L.) J. Sm. in Hook. Journ. Bot. 3 : 398. 1841 ; Bedd. Handb. Ferns Brit. India 341. t. 191. 1883. *Polypodium quercifolium* L. Sp. Pl. 2 : 1087. 1753 ; Bedd. Ferns Brit. South. India t. 187. 1865.

*Distrib.* : Throughout India in the plains and above in hilly regions, Sri Lanka, South to Fiji and trop. Australia.

**D. sparsisora** (Desv.) Moore, Ind. Fil. CCCXLVIII. 1857. *Polypodium sparsisorum* Desv. Berl. Mag. 5 : 315. 1811. *Drynaria linnaei* (Bory) Bedd. Ferns Brit. India t. 315. 1869 ; Handb. Ferns Brit. India 343. 1883.

*Distrib.* : NE India, Sri Lanka, Malay Peninsula.

## SCHIZAEACEAE Kaulf.

**Actinostachys** Wall. ex Hook. Gen. Fil. t. 111. 1842.

Type : **A. digitata** (L.) Wall. ex Hook. Gen. Fl. t. 111. 1842.

**A. digitata** (L.) Wall. ex Hook. Gen. Fil. t. 111. 1842. *Acrostichium digitatum* L. Sp. Pl. 2 ; 1068. 1753. *Schizaea digitata* (L.) Sw. Syn. Fl. 150. t. 4. 1806 ; Bedd. Ferns South. India. t. 268. 1865 ; Handb. Ferns Brit. India 452. t. 279. 1883.

*Distrib.* : India (North India, Meghalaya, S. India), Bangladesh, Sri Lanka, Malay Peninsula, Malesian Islands, Fiji, Philippines.

*Schizaea* Sm. *Mém. Acad. Sci. Turin.* 5 : 419. t. 19. f. 9. 1793 ; Panigr. & Dixit. *Proc. Autm. Sch. Bot.* 207. 1966.

Type : *S. dichotoma* (L.) Sm. *Mém. Acad. Sci. Turin.* 5 : 419 : 1793.

*S. dichotoma* (L.) Smith, *Mém. Acad. Turin.* 5 : 422. t. 9. 1973 ; Bedd. *Ferns South. India* t. 65 1863 ; *Handb. Ferns Brit. India* 452. t. 278. 1883. *Acrostichum dichotomum* L. *Sp. Pl.* 2 : 1068. 1753.

*Distrib.* : South India, Malay Peninsula, Tropical America, West-Indies, Australia, New Zealand, Polynesia, Philippines, Mascareen Islands.

#### ANEMIACEAE Link

*Anemia* Sw. *Syn. Fil.* 6, 155. 1806 ; Panigr. & Dixit, *Proc. Autm. Sch. Bot.* 231. 1966. *nom. cons.*

Type : *A. phyllitidis* (L.) Sw. *Syn. Fil.* 155. 1806.

*A. tomentosa* (Sav.) Sw. *Syn. Fil.* 156. 1806 ; Bedd. *Handb. Ferns Brit. India* 453. t. 280 1883. *Osmunda tomentosa* Sav. in Link *Encycl.* 4 : 652. 1797. *Anemia wightiana* (Gard.) Bedd. *Ferns. South. India* 22. t. 66. 1863.

*Distrib.* : South India, Mexico, Peru, West Indies.

#### LYGODIACEAE Presl

*Lygodium* Sw. *Schrad. Journ. Bot.* 1800 (2) : 7, 106. 1801 ; Holtt. *Fl. Males. Ser. II.* 1 (1) : 44. 1959, Panigr. & Dixit, *Proc. Autm. Sch. Bot.* 212. 1966. *nom. cons.*

Type : *L. scandens* (L.) Sw. *Journ. Bot.* 1806 (2) : 100. 1801.

*L. altum* (Clarke) v. A. v. R. *Mal. Ferns* 114. 1909. *L. flexuosum* var. *alta* Clarke, *Trans Linn. Soc. Lond. II. Bot.* 1 : 584. 1880.

*Distrib.* : India (Assam).

**L. circinatum** (Burm.) Sw. Syn. Fil. 153. 1806 ; Bedd. Handb. Ferns. Brit. India 455. f. 281. 1883. *Ophioglossum circinatum* Burm. Fl. Ind. 228. 1768. *Ophioglossum furcatum* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 478. 1844.

*Distrib.* : India (Andaman & Nicobar Islands, North East India), Sri Lanka, China, Siam, Malaya Peninsula, Malesian Islands, Philippines ; Hongkong and chusan. Its occurrence from the main land of India is doubtful.

**L. flexuosum** (L.) Sw. Schrad. Journ. 1800 (2) : 106. 1801 ; Bedd. Ferns South. India t. 63. 1863 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 584. 1880 ; Handb. Ferns Brit. India 457. f. 283. 1883. *Ophioglossum flexuosum* L. Sp. Pl. 2 : 1063. 1753.

*Distrib.* : Throughout India from the plains to the mountainous regions, Sri Lanka, Malay Peninsula, Malesian Islands, Philippines, China, Australia, Pacific.

**L. giganteum** Tagawa & Iwats. Acta Phytotax. Geobot. 22 : 97. f. 1. 1967.

*Distrib.* : India (Himalayas), Japan.

**L. japonicum** (Thunb.) Sw. Journ. Bot. 1800 (2) : 106. 1801 ; Bedd. Ferns South. India t. 64. 1863 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 584. 1880 ; Bedd. Handb. Ferns Brit. India 452. 1883. *Ophioglossum japonicum* Thunb. Fl. Jap. 328. 1784.

*Distrib.* : India (North-East India, South India and Western Himalayas), Japan, Sri Lanka, Korea, Japan, Siam, Indo China, China, Malesian Islands, Philippines, America.

**L. longifolium** (Willd.) Sw. Schrad. Journ. Bot. 1800 (2) : 305. 1801. *Hydroglossum longifolium* Willd. Abh. Kurf. Mainz. Akad. Wiss. Erfurt. 1802 : 22. t. 2. 1802.

*Distrib.* : South India, China, Malaya, Malaysia.

**L. mearnsii** Copel. Philip. Journ. Sci. Bot. 3 : 37. 1908.

*Distrib.* : India (Eastern Himalayas), Philippines.

**L. microphyllum** (Cav.) R. Br. Prod. Fl. Nov. Holl. 162. 1810 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 583. 1880 ; Bedd. Handb. Ferns. Brit. India 455. t. 282. 1883. *Ugenia microphyllum* Cav. Icon. Descr. Pl. 6 : 76. t. 595. 1801 ; Bedd. Ferns South. India t. 61. 1863. *Ophioglossum filiforme* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 476. t. 26. f. 3. 1844.

*Distrib.* : India (Assam, Sikkim, Meghalaya, Madhya Pradesh, South India, Andman & Nicobar Islands), Malay Peninsula, Malesian Islands, Sri Lanka, Africa to Polynesia and Australia.

**L. polystachyum** Wall. ex Moore, Gard. Chron. 671. 1859 ; Bedd. Ferns. Brit. India t. 300. 1868 ; Handb. Ferns Brit. India 458. f. 284. 1883.

*Distrib.* : India (Assam), Burma, Siam, China, Indo-China, Malaysia, Malay Peninsula.

**L. salicifolium** Presl, Suppl. Tent. Pterid. 102 : 1845. (*pro parte* excl. Pl. Wallich, *pro parte* & *Syn. L. semibipinnatum* wall.).

*Distrib.* : Eastern India, Siam, Indo-China to Yunnan, Formosa, New Guinea, Malaysia, Malay Peninsula.

#### SINOPTERIDACEAE Koidz.

**Doryopteris** J. Sm. in Hook. Journ. Bot. 3 : 404. 1841.

Lectotype : **D. palmata** (Willd.) J. Sm. in Hook. Journ. Bot. 4 : 163. 1841.

**D. concolor** (Langsd. et Fisch.) Kuhn, v. Deck. Reis. 3 (3) : Bot. 19. 1879. *Pteris concolor* Langsd. et Fisch. Icon. Fil. 19. t. 21 1810. *Pellaea geranifolia* (Raddi) Fée. Mém. Fern. Foug. 5 : 130. 1850 52 ; Bedd. Ferns South. India t. 13. 1864.

*Distrib.* : S. India and tropics of the world.

**D. kirkii** (Hook.) Alston, Bol. Soc. Broter. ser. 2A, 30 : 14. 1956. *Cheilanthes kirkii* Hook. Cent. Ferns t. 81. 1861. *Doryopteris concolor* var. *kirkii* (Hook.) Wiss. Ergeb. Schwed. Rhod. Kongo Exp. 1 : 4. 1941.

*Distrib.* : S. India, Orissa, Karnataka, Andhra Pradesh, Kerala, Sri Lanka, Africa.

**D. ludens** (Wall. ex Hook.) J. Sm. Hist. Fil. 189. 1875 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 470. 1880 ; Handb. Ferns Brit. India 120. t. 82. 1883. *Pteris ludens* Wall. ex Hook. Sp. Fil. 2 : 210. 1858. *Litobrachia ludens* (Wall. ex Hook.) Bedd. Ferns Brit India t. 27. 1865. *L. pedata* Presl, Tent. Pterid. 149. t. 5. f. 25. 1836 ; Bedd. Ferns Brit. India t. 26. 1865. *Pteris multifida* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 507. 1844.

*Distrib.* : North - East to South India, Burma, Bangladesh, Orissa, Philippine Islands.

**Notholaena** R. Br. Prod. Fl. Nov. Holl. 145. 1810.

Lectotype : **N. marantae** (L.) Desv. Journ. de Bot. appl. 1 : 92. 1813.

**N. lanuginosa** Desv. ex Poir. in Lam. Encycl. Suppl. 4 : 110. 1816. **N. vellea sensu** Bedd. Handb. Ferns Brit. India 375. 1883 ;

*Distrib.* : India (North West Himalayas), Afghanistan, Pakistan, S. Europe, Africa.

**N. marantae** (L.) Desv. Journ. de Bot. appl. 1 : 92. 1813 ; Bedd. Handb. Ferns Brit. India 393. t. 213. 1883. **Acrostichum marantae** L. Sp. Pl. 2 : 1071. 1753.

*Distrib.* : India (North West Himalayas, Sikkim), S. Europe, Macronesia to the Caucasus and Abyssinia.

**Mildella** Trev. Rendic. Inst. Lomb. Sci. et Lett. 119 : 810. 1876.

Type : **M. intramarginalis** Trev. Rendic. Inst. t. Lomb. Sci. et Lett. 119 : 810. 1876.

**M. nitidula** (Wall. ex Hook.) Hall & Lelling. Amer. Fern Journ. 57 (3) : 127. 1967. **Cheilanthes nitidula** Wall. ex Hook. Sp. Fil. 2 : 112. 1852 ; Bedd. Ferns Brit. India t. 222. 1867.

*Distrib.* : India (N. W. Himalayas), Nepal, West Pakistan.

**Pellaea** Link, Fil. Sp. 59. 1842. *nom cons.*

Type : **P. atropurpurea** (L.) Link, Fil. Sp. 59. 1842.

**P. boivini** Hook. Sp. Fil. 2 : 147. t. 118 A. 1858 ; Bedd. Handb. Ferns Brit. India t. 53. 1883. **Pteris boivini** Bedd. Ferns South. India 12. t. 36. 1863.

*Distrib.* : South India, Madagascar, Mauritius.

**P. calomelanos** (Sw.) Link, Fil. Sp. Hort. Berol. 61. 1841 ; Bedd. Handb. Ferns Brit. India 104. 1883. **Pteris calomelanos** Sw. Schrad. Journ. Bot. 1800 (2) : 70. 1801 ; Bedd. Ferns Brit. India t. 22. 1866.

*Distrib.* : India (North - West Himalayas), Africa.

**P. seticaulis** (Hook.) Ghosh, Journ. Bomb. Nat. Hist. Soc. 1984. **Pteris seticaulis** Hook. Icon. Pl. 3. t. 207. 1840. **Platyloma falcatum** var. **setosum** Bedd. Ferns South. India 7. t. 22. 1863. **Pellaea falcata sensu** Bedd. Ferns South. India t. 22. 1863 ; Handb. Ferns Brit. India 102. t. 54. 1883. (*non R. Br.*)

*Distrib.* : South India, Sri Lanka, Malaya Peninsula, Australia, New Zealand.

### CHEILANTHACEAE Nayar

**Cheilanthes** Sw. Syn. Fil. 5 : 126. 1806 ; Nayar, Bull. Nation. Bot. Gard. (6) : 1-35. Lucknow no. 68. 126. 1962.

Type : *C. micropteris* Sw. Syn. Fil. 5 : 126, 334. t. 3. f. 5. 1806.

*C. albomarginata* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 456. t. 52. 1880 ; Bedd. Handb. Ferns Brit. India 94. 1883 ; *Cheilanthes farinosa* var. *albomarginata* Bedd, Handb. Ferns Brit. India Suppl. 22. 1892. *Aleuritopteris albomarginata* (Clarke) Ching, Hong Kong Nat. 10 : 199. 1941.

*Distrib.* : Throughout India in hilly regions, Nepal, Bhutan, China.

*C. anceps* Blanf. Journ. Simla Nat. Hist. Soc. 1 : 21. 1886 ; *C. farinosa* var. *anceps* (Blanf.) Blanf. Journ. Asiat. Soc. Bengal 57. pt. II. (4) : 249. 1888 ; Bedd. Handb. Ferns Brit. India Suppl. 21. 1892. *Aleuritopteris farinosa* var. *anceps* (Blanf.) Ching. Hong Kong Nat. 194. 1941. *Aleuritopteris anceps* (Blanf.) Panigr. Bull. Bot. Surv. India 2 : 321. 1961.

*Distrib.* : Throughout India, China, Sri Lanka, Burma, Philippines, East Africa and its Islands, Trop. America, Arabia.

*C. argentea* (Gmel.) Kunze, Linnaea 23 : 242. 1850 ; Bedd. Ferns Brit. India t. 143. 1867 ; Handb. Ferns Brit. India 95. t. 48. 1883. *Pteris argentea* Gmel. Nov. Comm. Petr. 12 : 519. t. 12. f. 2. 1768. *Aleuritopteris argentea* (Gmel.) Fée, Gen. Fil. 154. 1850-52.

*Distrib.* : India (Meghalaya), Burma, China, Japan.

*C. belangiri* (Bory) C. Chr. Ind. Fil. 172. 1905. *Pteris belangiri* Bory, Bél. Voy. Bot. 2 : 44. 1833. *C. varians* Wall. ex Hook. Sp. Fil. 2 : 89. t. 103 A. 1852 ; Bedd Ferns South. India t. 189. 1867 ; Handb. Ferns Brit. India 91. 1883.

*Distrib.* : India (Bengal plains to Assam, Meghalaya, S. India), Burma, China, Luzon.

*C. bullosa* Kunze, Linnaea. 24 : 274. 1851. *Aleuritopteris bullosa* (Kunze) Ching, Hong Kong Nat. 10 : 202. 1941.

*Distrib.* : India (Western Ghats, Nilgiri Hills). China, Australia.

**C. chrysophylla** Hook. Icon. Pl. 2 : 113. 1852. *Cheilanthes farinosa* var. *chrysophylla* (Hook.) Bedd. Handb. Ferns. Brit. India 93. 1883. *C. argentea* var. *chrysophylla* Hook. Syr. Fil. 142. 1865. *C. argentea* var. *sulphurea* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 93. 1880. *Aleuritopteris chrysophylla* (Hook.) Ching, Hong Kong Nat. 10 : 201. 1941.

*Distrib.* : E. Himalayas.

**C. dalhousiae** Hook. Sp. Fil. 2 : 80. t. 78 B. 1852. *C. farinosa* var. *dalhousiae* (Hook.) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 457. t. 51. 1880 ; Bedd. Handb. Ferns Brit. India 93. 1883. *Aleuritopteris dalhousiae* (Hook.) Ching, Hong Kong Nat. 10 : 204. 1941.

*Distrib.* : India (Himalayas).

**C. dubia** Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 528. 1899. *Aleuritopteris dubia* (Hope) Ching, Hong Kong Nat. 10 : 200. 1941.

*Distrib.* : India (N. W. Himalayas).

**C. duthei** Bak. Ann. Bot. 5 : 210. 1891 ; Bedd. Handb. Ferns Brit. India Suppl. 20. 1892. *Aleuritopteris duthei* (Bak.) Ching, Bull. Fan. Mem. Inst. Biol. ser. 2, 1 : 271. 1949.

*Distrib.* : India (N. W. Himalayas), China.

**C. farinosa** (Forsk.) Kaulf. Enum. Fil. 212. 1824 ; Bedd. Ferns South. India t. 191. 1867 ; Handb. Ferns Brit. India 92. 1883. *Pteris farinosa* Forsk, Fl. Aegypt. Arab 187. 1775. *Aleuritopteris farinosa* (Forsk.) Fée, Gen. Fil. 154. t. 12 B. f. 1. 1850 52.

*Distrib.* : Throughout India, Sri Lanka, Burma, Trop. America, Java, Philippines, East Africa and its Islands and Arabia.

**C. flaccida** (Bedd.) Mehra & Bir, Res. Bull. (N. S.) Punjab Univ. 15 : 110. 1964. *C. farinosa* var. *flaccida* Bedd. Handb. Ferns Brit. India 93. 1883. *C. dalhousiae sensu* Bedd. Ferns South. India t. 192. 1867. *Aleuritopteris flaccida* (Bedd.) Nayar & Kaur, Comp. to Bedd. Handb. 25. 1974.

*Distrib.* : S. India, Eastern Himalayas.

**C. fragrans** (L. f.) Sw. Syn. Fil. 127, 325. 1806. *Adiantum fragrans* L. f. Suppl. Pl. 447. 1781.

*Distrib.* : India (N. W. Himalayas), Western Asia, S. Europe, N. Africa.

**C. grisea** (Blanf.) Blanf. Journ. Simla Nat. Hist. Soc. 1 : 21. 1886 ; *C. farinosa* var. *grisea* Blanf. Journ. Asiat. Soc. Bengal 57. t. II. (4) :

250. 1881 ; Bedd. Handb. Ferns Brit. India Suppl. 21. 1892. *Aleuritopteris grisea* (Blanf.) Panigr. Bull. Bot. Surv. 214. 1824 (*pro parte*).

*Distrib.* : North East to Central India, Sri Lanka, China.

**C. hancockii** Bak. Kew Bull. 1895: 54 : 1895.

*Distrib.* : India (Himalayas), China.

**C. keralensis** Nair & Ghosh, Journ. Indian Bot. Soc. 55 : 52. 1976.

*Distrib.* : S. India (Kanya Kumari distt.).

**C. kuhnii** Milde, Bot. Zeit. 25 : 149. 1867.

*Distrib.* : India (Himalayas), China, South Korea.

**C. laxa** Moore, Ind. Fil. 245. 1861.

*Distrib.* : S. India, Sri Lanka.

**C. persica** (Bory) Mett. ex Kuhn, Fil. Afr. 73. 1868. *Notholaena persica* Bory, Bél, Voy. Bot. 2 : 23. 1833. *C. szovitsii* Fisch. & Meyer, Bull. Soc. Misc. 6 : 260. 1883 (*nom. nud.*) ex Hook. Syn. Fil. 139. 1865 ; Bedd. Ferns Brit. India t. 145. 1867 ; Handb. Ferns Brit. India 89. 1883.

*Distrib.* : India (N W. Himalayas), Kabul, Asia Minor, Persia, S. Europe.

**C. pteridoides** (L.) C. Chr. Ind, Fil. 178. 1905. *Polypodium pteridoides* Reich. L. Syst. Pl. ed. novis 4 : 424. 1780. *Polypodium pteridoides* L. Mant. 307. 1771 ; Bedd. Ferns Brit. India t. 328. 1870. *Cheilanthes fragrans* Webb. ex Benth. Hist. nat. Canr. 3 (2) : pars. 3. 452. 1847 ; Bedd. Handb. Ferns Brit. India 88. 1883.

*Distrib.* : India (N W Himalayas), Cabul, all round the Mediterranean, Canaries, Maderia.

**C. rufa** D. Don, Prod. Fl. Nepal 16 : 1825 ; Bedd. Ferns Brit. India t. 144. 1867 ; Handb. Ferns Brit. India 94. 1883. *Aleuritopteris rufa* (D. Don) Ching, Hong Kong Nat. 10 : 200. 1941.

*Distrib.* : India (North West Himalayas), China.

**C. subdimorpha** (Clarke & Bak.) Nayar & Kaur, Comp. to Bedd. Handb. 26. 1974. *C. farinosa* var. *subdimorpha* Clarke & Bak. Journ. Linn. Soc. 24 : 411. 1888 ; Bedd Handb. Ferns Brit. India Suppl. 21. 1882.

*Distrib.* : India (Eastern Himalayas), China.



**C. subvillosa** Hook. Sp. Fil. 2 : 87. t. 98B. 1852 ; Bedd. Ferns. Brit. India t. 142. 1866 ; Handb. Ferns Brit. India 93. 1883. *Aleuritopteris subvillosa* (Hook.) Ching, Hong Kong Nat. 10 : 203. 1941.

*Distrib.* : India (Himalayas), China.

**C. swartzii** Webb. et Benth, Hist. Nat. Cenar 3 (3) : 453. 1847 ; Panigr. & Basu, Taxon 31 (1) : 103. 1982. *C. fragrans sensu* Sw. Syn. Fil. 127. 325. t. 3. f. 3. 1806. pp. maj. incl. descr. et. Sp. excl. type et Syn. non *Polypodium fragrans* L. (1771) nec. L. (1783). *C. mysurensis* Wall. ex Hook. Sp. Fil. 2 : 94. 100 A 1852 ; Bedd. Ferns South, India t. 190. 1865 ; Handb. Ferns Brit. India 89. t. 46. 1883, (*non Asplenium mysurensense* Heyne ex Roth. 1821).

*Distrib.* : India (Orissa, Andhra Pradesh, Tamil Nadu, Karnataka, & Kerala), Sri Lanka, Burma.

**C. tenuifolia** (Burm. f.) Sw. Syn. Fil. 129, 332. 1806 ; Bedd. Ferns South. India t. 188. 1865 ; Handb. Ferns Brit. India 92. 1883. *Trichomanes tenuifolia* Burm. f. Fl. Ind. 237. 1768.

*Distrib.* : Throughout India, Sri Lanka, China, Formosa, Philippines, Malay Islands, Australia, New Zealand, Polynesia.

**C. thwaitesii** Mett. ex kuhn, Linn. Relege Mett. 36 : 82. 1869.

*Distrib.* : South India, Sri Lanka.

**C. trichophylla** Bak. Ann. Bot. 5 : 211. 1891 ; Bedd. Handb. Ferns Brit. India Suppl. 20. 1892.

*Distrib.* : India (Sikkim), China.

#### CRYPTOGRAMMACEAE Pic. Ser.

**Cryptogramma** R. Br. in Franklin Narr. Journ. Polar Sea 767. 1823.

Type : **C. acrostichoides** R. Br. in Franklin Narr. Journ. Polar Sea 767. 1823.

**C. brunoniana** Wall. ex Hook. & Grev. Icon. Fil. t. 158. 1829 ; Bedd. Ferns Brit. India t. 164. 1866. *C. crispa sensu* Hook. & Bak. Syn. Fil. 144. 1868 (*pro parte*) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 459. 1880 ; Bedd. Handb. Ferns Brit. India 98. t. 50. 1883 ; *C. crispa* f. *indica* Hook. Sp. Fil. 2. 129 ; 1858.

*Distrib.* : India (Himalayas, Andaman Islands), China, Taiwan, Afghanistan.

**C. stelleri** (Gmel.) Prantl in Bot. Jahrb. 3 : 413. 1882. *Pteris stelleri* Gmel. in Nov. Comm. Petr. 12. 519. t. 12. f. 1. 1768. *Pellaea gracilis* Hook. Sp. Fil. 2 : 138. t. 133 B. 1858 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 460. 1880.

*Distrib.* : India (Eastern Himalayas), China, Nepal, Bhutan, Formosa, Japan, Siberia, Taiwan, N. America.

**Onychium** Kaulf. Berlin Jahrb. Pharm. 21 : 45. 1820 ; Ching, Lingnan Sc. Journ. 13 (3) : 493 501. 1934.

.Type : **O. capense** Kaulf. Enum. Pl. 145. t. 1. f. 8 1824.

**O. contiguum** Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 444. 1901. *O. japonicum* var. *multisectum* Bedd. Handb. Ferns Brit. India Suppl. 23. 1892.

*Distrib.* : India (Kashmir to Sikkim), Tibet, Thai, China.

**O. fragile** Verma & Khullar, Nova Hedw 9 : 85. 1965.

*Distrib.* : India (Himalayas).

**O. ipii** Ching, Lingnan Sci. Journ. 15 : 282. 1936.

*Distrib.* : India (Sikkim), China.

**O. japonicum** (Thunb.) Kunze, Bot. Zeit. 6 : 507. 1848 ; Bedd. Ferns. Brit. India t. 2. 1969. Handb. Ferns Brit. India 96. 1883. *Trichomanes japonicum* Thunb. Fl. Jap. 340. 1784.

*Distrib.* : Himalayas (Punjab to Assam), Burma, China, Korea, Formosa, Japan, Philippines, Java.

**O. lucidum** (D. Don) Spr. Syst. 4 : 66. 1827. *Leptostegia lucida* D. Don. Prod. Fl. Nepal 14 : 1825.

*Distrib.* : India (North West to Eastern Himalayas), China.

**O. plumosum** Ching, Lingnan Sci. Journ. 13 (3) : 499. 1934 ; *Ophioglossum japonicum* var. *parvisorum* R. Bona Parte, Notes Pterid. 14. 1923.

*Distrib.* : India (Sikkim), China.

**O. siliculosum** (Desv.) C. Chr. Ind. Fil. 468. 1906. *Pteris siliculosa* Desv. Berlin Mag. 5 : 324. 1811. *O. auratum* Kaulf. Enum. Fl. 144. 1824 ; Bedd. Handb. Ferns. Brit. India 96. 1883.

*Distrib.* : Himalayas (Nepal to Assam), Burma, Indo China, Malaya Peninsula, China, Formosa, Philippines, Malaya Islands, New Guinea, Polynesia.

**O. tenuifrons** Ching, Lingnan Sci. Journ. 14 (3) : 500. 1934.

*Distrib.* : India (Eastern Himalayas), China.

#### ACTINIOPTERIDACEAE Pic. Ser.

**Actiniopteris** Link, Fil. Sp. 79. 1841.

Lectotype : **A. radiata** (Sw.) Link, Fil. Sp. 80. 1841.

**A. radiata** (Sw.) Link, Fil. Sp. 80. 1841 ; Bedd. Ferns South. India. t. 124. 1865. *Asplenium radiatum* Sw. Schrad. Journ. Bot. 1800 (2) : 50. 1801. *Actiniopteris dichotoma* Kuhn, Bot. Zeit. 504. 1871 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 505. 1880 ; Bedd. Handb. Ferns Brit. India 197. t. 98. 1883.

*Distrib.* : Throughout India in drier regions, Sri Lanka, Africa, Mascareen Islands, Persia, Afghanistan.

#### PTERIDACEAE Ching

**Pteris** L. Sp. Pl. 2 : 1073. 1753.

Lectotype : **P. longifolia** L. Sp. Pl. 2 : 1074. 1753.

**P. almeidiana** Bole & Almeida, Journ. Bomb. Nat. Hist. Soc. 74 : 320. 1977.

*Distrib.* : India (Maharashtra).

**P. amoena** Bl. Enum. Pl. Jav. 210. 1828.

*Distrib.* : North East India, Java.

**P. argyrea** Moore in Garden. Chron. 671. 1959. *P. quadriaurita* var. *argentea* Bedd. Handb. Ferns Brit. India 111. 1883.

*Distrib.* : South India.

**P. aspercaulis** Wall. ex Ag. Rec. Sp. Gen. Pterid. 22. 1839. *P. quadriaurita* var. *aspercaulis* (Wall. ex Ag.) Bedd. Handb. Brit. India 111. 1883.

*Distrib.* : Throughout India in mountainous regions, Nepal, Burma, Thailand, China.

**P. asperula** J. Sm. ex Hieron. Hedw. 55 : 361. 1914. *P. quadriaurita* var. *setigera* Bedd. Ferns Brit. India t. 202. 1867. *P. quadriaurita* var. *hamulosa* Wall. ex Bedd. Handb. Ferns Brit. India Suppl. 23. 1892. *P. quadriaurita* var. *asperula* (J. Sm. ex Hieron.) Bedd. Handb. Ferns Brit. India Suppl. 24. 1892.

*Distrib.* : S. E. India, Burma.

**P. barbiger** Ching, Lingnan Sci. Journ. 15 : 395. 1936 ; Pic. Ser. Ind. Fil. Suppl. 4 : 260. 1965.

*Distrib.* : North India.

**P. biaurita** L. Sp. Pl. 2 : 1076. 1753 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 469. 1880. *Campteria biaurita* (L.) Hook. Gen. Fil. t. 65 A. 1841 ; Bedd. Ferns South. India t. 44. 1863 ; Handb. Ferns Brit. India 115. 1883.

*Distrib.* : Throughout the tropics of the world.

**P. blumeana** Agardh, Rec. Sp. Gen. Pteridis 22. 1839. *P. quadriaurita* var. *blumeana* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 466. 1880 ; Bedd. Handb. Ferns Brit. India 112. 1883.

*Distrib.* : Eastern Himalayas, Bangladesh, Burma, Singapore.

**P. confusa** T. G. Walker in Kew Bull. 14 : 329. f. 5. t. 5 B. 1960.

*Distrib.* : India (Kerala), Sri Lanka.

**P. cretica** L. Mant. Pl. 130. 1767 ; Bedd. Ferns South. India t. 39. 1863 ; Handb. Ferns Brit. India 106. 1883 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 449. 1901.

*Distrib.* : Widely distributed in tropics & temperate regions of the world.

**P. dactylina** Hook. Sp. Fil. 2 : 160. t. 130 A. 1858 ; Bedd. Ferns Brit. India t. 23. 1865 ; Handb. Ferns Brit. India 107. t. 56. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 ; 463. 1880.

*Distrib.* : India (E. Himalayas), China, Formosa.

**P. ensiformis** Burm. f. Fl. Ind. 230. 1768 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 463. 1880 ; Bedd. Handb. Ferns Brit. India 107. 1883. *P. crenata* Sw. Schrad. Journ. Bot. 1800 (2) : 65. 1801 ; Bedd. Ferns South. India t. 35. 1863.

*Distrib.* : Throughout India, Sri Lanka, Burma, Malay Peninsula, China, Formosa, Ryukyu, Philippines, Malay Islands, tropical Australia, Polynesia, Micronesia.

**P. excelsa** Gaud. Frey. Voy. Bot. 388. 1829 ; Bedd. Ferns Brit. India 218. 1867 ; Handb. Ferns Brit. India 114. 1883.

*Distrib.* : N. W. to Eastern Himalayas, Sandwich Islands.

**P. furunculata** Nair & Ghosh, Journ. Indian Bot. Soc. 55 : 38. 1976.

*Distrib.* : India (Kerala).

**P. geminata** Wall. ex Agardh, Rec. Sp. Gen. Pteridis 31. 1839. *Campteria kleiniana* Presl, Tent. Pterid. 147. t. 5. f. 19. 1836; Bedd. Handb. Ferns Brit. India 116. t. 60. 1883. *C. anamallyensis* Bedd. Ferns South. India t. 45. 1863.

*Distrib.* : S. India, America.

**P. gongalensis** T. G. Walker, Kew Bull. 14 : 328. f. 4. t. 5 A. 1960 ; Nair & Ghosh, Journ. Bomb. Nat. Hist. Soc. 14 : 441. 1976.

*Distrib.* : India (Kerala), Sri Lanka.

**P. grevilleana** Wall. ex Agardh, Rec. Sp. Gen. Pteridis 23. 1839 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : t. 56. 1880 ; Bedd. Handb. Ferns Brit. India 112. 1883 ; Suppl. 24. 1892.

*Distrib.* : E. India, Malaya Peninsula, Borneo, Bangladesh, Burma, Singapore.

**P. griffithii** Hook. Sp. Fil. 2 : 170. t. 123A. 1853 ; Bedd. Ferns Brit. India t. 24 : 1869 ; Handb. Ferns Brit. India 108 t. 57. 1883.

*Distrib.* : India (S. Andamans), Burma.

**P. heteromorpha** Fée, Gen. Fil. 127. 1851 52 ; Bedd. Ferns Brit. India t. 89. 1865 ; Handb. Ferns Brit. India 106. 1883.

*Distrib.* : India (Orissa), Burma, Luzon, Celebes.

**P. khasyana** (Clarke) Hieron. Hedw. 55 : 364. 1914 ; Bedd. Handb. Ferns Brit. India 111. 1883.

*Distrib.* : India (Himalayas).

**P. linearis** Poir. in Encycl. 5 : 723. 1804. *P. normalis* D. Don, Prod. Fl. Nepal 15. 1825.

*Distrib.* : E. Himalayas, trop. Africa, Asia, Australia, Polynesia.

**P. longipcs** D. Don, Prod. Fl. Nepal 15. 1825 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 468. 1880 ; Bedd. Handb. Ferns Brit. India 115. 1883.

*Distrib.* : India (S. E. India, E. Himalayas), Sri Lanka, Burma, Bhutan, Nepal, Guinea coast, Guatemala.

**P. longipinnula** Wall. ex Agardh, Rec. Sp. Gen. Pteridis 19. 1839 ;  
Bedd. Ferns South. India t. 42. 1863 ; Handb. Ferns Brit. India 115. 1883.

*Distrib.* : Cosmopolitan.

**P. mertensioides** Willd. in Linn. Sp. Pl. 5 : 394. 1810. *P. patens*  
Hook. Sp. Fil. 2 : 177. 1858 ; Bedd. Ferns South. India t. 205. 1867.

*Distrib.* : S. India, Sri Lanka, Borneo, Philippines, and Society  
Islands.

**P. multiaurita** Ag. Rec. Sp. Gen. Pteridis 12. 1839 ; T. G. Walker,  
Kew Bull. 14 : 323. 1960.

*Distrib.* : S. India.

**P. nemoralis** Willd. Enum, 1073. 1809. et in Linn. Sp. Pl. 5 : 386.  
1810.

*Distrib.* : India (Orissa, Kerala).

**P. nepalensis** Ito in Hara's Fl. East. Himalayas 466. 1966.

*Distrib.* : E. Himalayas.

**P. pellucida** Presl, Rel. Haenk. 1 : 55. 1825 ; Clarke, Trans Linn.  
Soc. Lond. II. Bot. 1 : 462. 1880 ; Bedd. Ferns South. India t. 38. 1863 ;  
Handb. Ferns Brit. India 106. 1883.

*Distrib.* : Throughout India, Burma, Malay Islands, Guinea Coast.

**P. perrotteti** Hieron. Hedw. 55. 374. 1914.

*Distrib.* : South India (Nilgiri hills).

**P. perrotteti** var. *brevilaciniata* Hieron. Hedw. 55 : 375. 1914.

*Distrib.* : South India.

**P. praetermissa** T. G. Walker, Kew Bull. 14 : 327. f. 3. t. 5 E. 1960.

*Distrib.* : India (Kerala), Sri Lanka.

**P. prainii** Ghosh, J. Econ. & Tox. Bot. 3 : 591. t. 1. 1982.

*Distrib.* : India (Nagaland).

**P. pseudopellucida** Ching, Lingnan Sci. Journ. 15 : 395. 1936.

*Distrib.* : India (Eastern India), Bangladesh.

**P. quadriaurita** Retz. Obs. Bot. 6 : 38. 1791 ; Clarke Trans. Linn.  
Soc. Lond. II. Bot. 1 : 465. 1880 (*pro parte*) ; Bedd. Ferns South. India  
t. 31. 1863 ; Handb. Ferns Brit. India 110. 1883.

*Distrib.* : Throughout the tropics of world.

**P. rigida** Sod. Sert. Fl. Ecuad. II. 15. 1908. (non Sw. 1806)

*Distrib.* : Eastern Himalayas, Ecuadore.

**P. roseo - lilacina** Hieron. Hedw. 55 : 350. 1914.

*Distrib.* : E. Himalayas & S. India, China.

**P. semipinnata** L. Sp. Pl. 2 : 1076. 1753 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 464. 1880 ; Bedd, Ferns South. India t. 34. 1863 ; Handb Ferns Brit. India 110. t. 58. 1883.

*Distrib.* : Throughout India in hilly regions, Burma, Malay Islands, China, Japan,

**P. setigera** (Bedd.) Nair, Bull. Bot. Surv. India 11 : 187. 1969.  
*P. quadriaurita* Retz. var. *setigera* Bedd. Ferns Brit. India t. 202. 1866;  
Handb. Ferns Brit. India 111. 1883.

*Distrib.* : South India, Burma.

**P. setuloso costulata** Hayata, Icon. Pl. Formos. 4 : 241. f. 168. 1914.

*Distrib.* : India (E. Himalayas) Burma, Indo - China, Malay Islands, Formosa.

**P. stenophylla** Wall. ex Hook. et. Grev. Icon. Fil. t. 130. 1829.  
*P. pellucida* var. *stenophylla* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 463. 1880 ; Bedd. Handb. Ferns Brit. India 107. 1883.

*Distrib.* : India (North - West to Eastern Himalayas), Nepal.

**P. subindivisa** Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 467. t. 56. f. 1. 1880. *P. quadriaurita* var. *subindivisa* (Clarke) Bedd. Handb. Ferns Brit. India 112. 1883.

*Distrib.* : Eastern Himalayas, Bhutan.

**P. subquinta** (Wall. ex Bedd.) Agardh, Rec. Sp. Gen. Pteridis 21. 1839. *P. quadriaurita* var. *subquinta* Wall. ex Bedd. Handb. Ferns Brit. India Suppl. 23. 1892.

*Distrib.* : India (N. W. Himalayas to Eastern Himalayas), Nepal.

**P. tenuissima** Ching, Lingnan Sci. Journ. 15 : 394. 1936 ; Pic. Ser. Ind. Fil. Suppl. 4 : 262. 1965.

*Distrib.* : India (Himalayas).

**P. tremula** R. Br. Prod. Fl. Nov. Holl. 154. 1810 ; Nair & Ghosh, Journ. Bomb. Nat. Hist. Soc. 73 : 240. 1977.

*Distrib.* : S. India, Australia, New Zealand.

**P. tricolor** Linden, Gardn. Chron. 123. 1860.

*Distrib.* : India (Sikkim), Malacca.

**P. tripartita** Sw. Schrad. Journ. Bot. 1800 (2) : 67. 1801. *Litobrachia tripartita* (Sw.) Presl, Tent. Pterid. 150. 1836 ; Bedd. Ferns South. India t. 220. 1865 ; Handb. Ferns. Brit. India Suppl. 25. 1892. *L. marginata* Presl, Tent. Pterid. 149. 1836 ; Bedd. Handb. Ferns Brit. India 122. 1883.

*Distrib.* : S. India, Sri Lanka, Malacca. Malay Peninsula, Trop. Africa, Queensland, Philippines, Polynesia.

**P. venusta** Kunze, Bot. Zeit. 6 : 195. 1868.

*Distrib.* : India (E. Himalayas), Burma, Indo China, Malay Islands, Formosa.

**P. vittata** L. Sp. Pl. 2 : 1074. 1753. *Pteris longifolia* auctt. quoad. Pl. asiat ; Bedd. Ferns South. India t. 33. 1863 ; Handb. Ferns Brit. India 106. t. 55. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 461. 1880.

*Distrib.* : Tropics and subtropics of the world.

**P. wallichiana** Agardh, Rec. Sp. Gen. Pteridis 69. 1839. *Campteria wallichiana* Moore, Ind. Fil. 221. 1861 ; Bedd. Ferns Brit. India t. 25 & 217. 1865 ; Handb. Ferns Brit. India 118. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan, Philippines, Java, Samoa.

#### ACROSTICHACEAE Mett. ex Frank.

**Acrostichum** L. Sp. Pl. 2 : 1067. 1753.

Lectotype : **A. aureum** L. Sp. Pl. 2 : 1068. 1753.

**A. aureum** L. Sp. Pl. 2 : 1069. 1753 ; Bedd. Ferns South. India t. 204. 1865 ; Handb. Ferns Brit. India 440. t. 268. 1883.

*Distrib.* : Tidal back water throughout India and throughout the world in Warm countries near the sea.

**A. speciosum** Willd. in Linn. Sp. Pl. 5 : 117. 1810.

*Distrib.* : India (Great Nicobar Islands) ; coasts of the world.



## ADIANTACEAE (Presl) Ching

**Adiantum** L. Sp. Pl. 2 : 1094. 1753 ; Ching, Acta Phytotax. Sin. 6 : 301. 1957 ; Nayar, Bull. Nation. Bot. Gard, Lucknow no. 52 (1) : 1 41. 1962.

Lectotype ; **A. capillus-veneris** L. Sp. Pl. 2 : 1096. 1753.

**A. aethiopicum** L. Syst. Nat. ed. X. 2 : 1329. 1759 ; Bedd. Ferns South. India t. 5. 1863 ; Ferns Brit. India t. 18. 1865 ; Handb. Ferns Brit. India 84. 1883.

*Distrib.* : India (Tamil Nadu), Sri Lanka, Australia, New Zealand, America, Africa, East Africa Islands.

**A. assamicum** (Nayar) Nayar, Bull. Nation. Bot Gard. Lucknow no. 54 : 1. 1964. **A. caudatum** L. var. *assamicum* Nayar, Bull. Nation Bot. Gard. Lucknow no. 52 (1) : 10. 1962.

*Distrib.* : Eastern India.

**A. capillus - junonis** Rupr. Distr. Cr. vase. Ross. 49. 1845 ; Panigr. Bull. Bot. Surv. India 2 : 312. 1960.

*Distrib.* : Eastern India, China.

**A. capillus - veneris** L. Sp. Pl. 2 : 1096. 1753 ; Bedd. Ferns South. India t. 4. 1863 ; Handb. Ferns Brit. India 84. 1883 ; Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 453. 1880.

*Distrib.* : Throughout India in mountainous regions ; Sri Lanka, Europe, America, Australia.

**A. capillus veneris** L. var. *dissecta* Nayar, Bull. Nation. Bot. Gard. Lucknow. no. 52 (1) : 37. 1962.

*Distrib.* : India (Tamil Nadu).

**A. caudatum** L. Mant. 308. 1771 ; Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 453. 1880. (*pro parte*).

*Distrib.* : Throughout India from the plains to lower hills, China, Sri Lanka, Malay Peninsula, Malesian Islands, Africa, Mauritius, Cape Verde Islands.

**A. caudatum** L. var. *flabellatum* Nayar, Bull. Nation. Bot. Gard. Lucknow no. 52 (1) : 12. f. 3 c. 1962.

*Distrib.* : India (Himalayan ranges at lower elevations from Kashmir to Nepal, Western and Eastern Ghats at higher elevations, Mahadev and Aravalli ranges).

**A. cuneipinnulum** Nair & Ghosh, Acta Bot. Indica 2 : 78. 1974.  
**A. cuneatum** Langsd. et Fisch. in Icon. Fil. 23. t. 26. 1810 (*non* Forst., 1786).

*Distrib.* : India (Darjeeling, Tamil Nadu, Kerala), Brazil, Argentina, Peru.

**A. edgewarthii** Hook. Sp. Fil. 2 : 14. t. 81 B. 1851 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 239. 1900. **A. caudatum** L. var. *edgewarthii* Bedd. Handb. Ferns Brit. India 84. 1883.

*Distrib.* : India (North West Himalayas).

**A. flabellulatum** L. Sp. Pl. 2 : 1905. 1753 ; Bedd. Ferns South. India t. 218. 1865 ; Handb. Ferns Brit. India 88. 1883. **A. amoenum** Wall. ex Hook. & Grev. Icon. Fil. 103. 1829.

*Distrib.* : Eastern India, Nepal, Bangladesh, Malaya Peninsula, Malesian Islands, China, Japan.

**A. hispidulum** Sw. Schrad. Journ. 1800 (2) : 82. 1801 ; Bedd. Ferns South. India t. 3. 1863 ; Handb. Ferns. Brit. India 87. 1883.

*Distrib.* : India (Tamil Nadu), Sri Lanka, Australia, New Zealand, Fiji, Africa, and Eastern Islands.

**A. incisum** Forsk. Fl. Aeg. 187. 1775 ; Pic. Ser. Webbia 12 : 669. f. 6. 1957. **A. caudatum** auct. Bedd Ferns South. India t. 2. 1863 ; Handb. Ferns Brit. India 83. t. 44. 1883.

*Distrib.* : Throughout India ; pantropic.

**A. indicum** Ghatak, Bull. Bot. Surv. India 5 : 71. 1963.

*Distrib.* : India (Bengal, Orissa).

**A. pedatum** L. Sp. Pl. 2 : 1095. 1753 ; Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 453. 1880 ; Bedd. Handb. Ferns. Brit. India 86. 1883.

*Distrib.* : India (North West Himalayas to Sikkim), Japan, North America.

**A. pectinatum** Ktze. ex Ettingsh. Farrnkr. 85. t. 45. 1865.

*Distrib.* : Widely cultivated in the gardens as pot plant.

**A. peruvianum** Kl. Linn. 20 : 441. 1847.

*Distrib.* : Widely cultivated in the gardens as pot plant.

**A. philippense** L. Sp. Pl. 2 : 1094. 1753. **A. lunulatum** Burm. Fl. Ind. 235. 1768 ; Bedd. Ferns South. India t. 1. 1863 ; Handb. Ferns Brit. India 82. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 452. 1880.

*Distrib.* : Pantropic.

**A. polyphyllum** Willd. in Linn. Sp. Pl. 5 : 454. 1810.

*Distrib.* : Cultivated in the gardens as pot plants.

**A. raddianum** Presl, Tent. Pterid. 158. 1836.

*Distrib.* : South India, S. America.

**A. refractum** Christ, Bull. Ac. Géogr. Bot. Mans. 1902. 224. 1902.

*Distrib.* : India (Sikkim), China.

**A. rubellum** Moore, Gard. Chron. 866. 1868.

*Distrib.* : Widely cultivated throughout India as pot plant.

**A. soboliferum** Wall. apud Hook. Sp. Fil. 2 : 13. t. 74 A. 1851.  
*Adiantum lunulatum* Burm var. *mittenii* (Kuhn) Bedd. Handb. Ferns Brit. India 83. 1883. *A. incisum* var. *soboliferum* Bedd. Ferns Brit. India t. 19. 1865 ; Handb. Ferns Brit. India 84. 1883.

*Distrib.* : South India, Tropical Africa, Burma.

**A. thalictroides** Willd. ex Schl. Adumbr. t. 5 : 53. 1832. Nair & Ghosh, Journ. Bom. Nat. Hist. Soc. 75 : 246. 1978.

*Distrib.* : Peninsular India, Africa, Mexico, America, Australia.

**A. trapeziforme** L. Sp. Pl. 2 : 1097. 1753.

*Distrib.* : Widely cultivated throughout India as pot plant.

**A. venustum** D. Don, Prod. Fl. Nepal 17. 1825 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 453. 1880 ; Bedd. Handb. Ferns Brit. India 86. t. 45. 1883.

*Distrib.* : India (North East Himalayas), Afghanistan.

**A. wattii** (Bedd.) Bak. Journ. Linn. Soc. 18 : 381 t. 14. f. A. 1881.  
*A. capillus - veneris* L. var. *wattii* (Bak.) Bedd. Handb. Ferns. Brit. India 18. 1892.

*Distrib.* : India, (N. E. India, Eastern Himalayas), Bangladesh.

**A. zollingeri** Mett. ex Kuhn, Ann. Mus. Lugd. Bat. 4 : 280. 1869 ; Ghatak, Bull. Bot. Surv. India 5 : 75. 1963.

*Distrib.* : South India, Java, Angola.

## HEMIONITIDACEAE Pic. Ser.

**Anogramma** Link, Fil. sp. 137. 1841.

Lectotype : **A. leptophylla** (L.) Link, Fil. sp. 137. 1841.

**A. leptophylla** (L.) Link, Fil. sp. 137. 1841. *Polypodium leptophyllum* L. Sp. Pl. 2 : 1092. 1753. *Gymnogramma leptophylla* Desv. Berl. Mag. 5 : 305. 1811 ; Bedd. Ferns South. India t. 270. 1865 ; Handb. Ferns Brit. India 382. t. 220. 1883.

*Distrib.* : India (Western Ghats, S. India) Europe, Maderia, Canarie, S. Africa, Persia, Australia, New Zealand, S. America.

**Coniogramme** Fée, Gen. Fil. 167. t. 4. f. 1, 2. 1850 52 ; Dixit & Das, Proc. Indian Acad. Sci. 88 (4) : 253. 1979. *nom cons.*

Type : **C. fraxinea** (D. Don) Fée ex Diels in Engl. & Prantl. Nat. Pfl. 1 (4) : 262. 1899.

**C. affinis** Wall. ex Hieron. Hedw. 57 : 297. 1916. *Grammitis affinis* Wall. List. no. 11. 1828 (*nom. nud.*). *Gymnogramme javanica sensu* Hook. Sp. Fil. 5 : 145. 1864 (*pro parte*) *sensu* Bedd. Ferns Brit. India t. 57. 1866 (*non* Bl. 1828). *Syngramme fraxinea* (D. Don) Bedd. Handb. Ferns Brit. India 386. 1883 (*pro parte*) ; non Suppl. 100. 1892.

*Distrib.* : India (Himalayas), Nepal.

**C. caudata** (Wall. ex Ettingsch) Ching in C. Chr. Ind. Fil. Suppl. 3 : 56. 1934. *Grammitis caudata* Wall. ex Ettingsch, Farrnkr. 57. t. 37. f. 7. t. 38. 1865. *Gymnogramme fraxinea* var. *pilosa sensu* Clarke, Trans. Linn. Soc. II. Bot. 1 : 569. 1880.

*Distrib.* : India (N W Himalayas, Eastern India), China, Nepal.

**C. denticulato - serrata** (Hieron.) Dixit & Das, Proc. Indian Acad. Sci. 88 (4) ; 261. f. 7. 20 : 1979. *C. fraxinea* var. *denticulo serrata* Hieron. Hedw. 57 : 290. 1916.

*Distrib.* : India (North - West Himalayas and Eastern India).

**C. falcata** (D. Don) Salom, Nomencl. 139. 1888. *Diplazium falcatum* D. Don, Prod. Fl. Nepal 13. 1825.

*Distrib.* : India (Eastern & Central Himalayas), Nepal.

**C. faxinea** (D. Don) Fée ex Diels in Engl. & Prantl, Nat. Pfl. 1 (4) : 262. 1899. *Diplazium fraxineum* D. Don, Prod. Fl. Nepal 12. 1825. *Gymnogramme fraxinea* (D. Don) Bedd. Ferns Brit. India Suppl. 24. 1876 (*pro parte*) ; *sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 569. 1880

(*pro parte*). *Syngamme fraxinea* (D. Don), Bedd. Ferns Brit. India 386. 1883 (*pro parte*) ; Suppl. 100. 1892. *Gymnogramme javanica* Bl. Enum. Pl. Jav. 112. 1828 ; *non sensu* Bedd. Ferns South. India 77 t. 232. 1865 ; Ferns Brit. India t. 57. 1866.

*Distrib.* : Throughout mountainous regions in India, China, Malay Peninsula, Indo China, Malesia, Formosa, Philippines.

**C. indica** Fée 10 mém 22. 1865.

*Distrib.* : Eastern India.

**C. intermedia** Hieron. Hedw. 57 : 310. 1916. var. **intermedia**. *Conio - gramme intermedia* Hieron. var. *villosa* Ching, Icon. Fil. Sin. 3. t. 143. 1935. *Syngamme fraxinea* (D. Don) Bedd. Handb. Ferns Brit. India 386. 1883 (*pro parte*).

*Distrib.* : India (Himalayas), Nepal, Bhutan, China, Japan.

**C. intermedia** Hieron. var. **glabra** Ching, Icon Fil. Sin. 3 : t. 143. 1935.

*Distrib.* : India (Himalayas), Nepal, Bhutan, China, Indo China, Formosa, Japan.

**C. pitelottii** Tard. Blot. Bull. Mus. Paris II. 5 : 334. 1933.

*Distrib.* : India (Meghalaya), China, Tonkin.

**C. procera** Wall. ex Fée, 10 me Mém. 22. 1865. *Grammitis procera* Wall. List. no. 3. 1828 (*nom. nud.*). *Syngamme fraxinea* (D. Don) Bedd. Handb. Ferns Brit. India 386. 1883 (*pro parte*).

*Distrib.* : India (Himalayas), N. Thailand, China. Formosa.

**C. purpurea** Dixit & Das, Proc, Indian Acad. Sci. 88 (4) : 264. f. 11, 25 27. 1979.

*Distrib.* : India (Eastern Himalayas).

**C. serrulata** (Bl.) Fée. Gen, Fil. 167. t. 14 B. f. 2. 1850 52. *Gymno - gramme serrulatum* Bl. Enum. Pl. Jav. 113. 1828. (*non* Fée 1857.)

*Distrib.* : Eastern India, Java.

**C. subcordata** Copel. Leaflets Phil. Bot. 3 : 823. 1910.

*Distrib.* : India (Himalayas), Nepal, Philippines.

**Hemionitis** L. Sp. Pl. 2 : 1077. 1753.

Lectotype : **H. palmata** L. Sp.Pl. 2 :1077. 1753.

**Hemionitis arifolia** (Burm.) Moore, Ind. Fil. 114. 1859 ; Bedd. Handb. Ferns Brit. India 413. t. 245. 1883. *Asplenium arifolium* Burm. Fl. Ind. 231. 1768. *Hemionitis cornifolia* Roxb. ex Bedd. Ferns South. India t. 53. 1863.

*Distrib.* : South India, Bangladesh, Sri Lanka, Burma, Philippines.

**Idiogramma** Ghosh, J. Econ. Tax. Bot. 4 (3) : 981. 1983.

Type : **I. microphylla** (Hook.) Ghosh, J. Econ. Tax. Bot. 4 (3) : 982. 1983.

**I. microphylla** (Hook.) Ghosh, J. Econ. Tax. Bot. 4 (3) : 982. 1983. *Gymnogramme microphylla* Hook. Icon. Pl. 10 : t. 916. 1854 ; Bedd. Handb. Ferns Brit. India 384. t. 221. 1883. *Anogramma microphylla* Diels, Nat. Pflanz. 1 (4) : 259. 1899 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 569. 1880. *Grammitis microphylla* Bedd. Ferns Brit. India t. 148. 1866.

*Distrib.* : India (Eastern India, Eastern Himalayas), China.

**Pityrogramma** Link, Handb. Erken. Gew. 3 : 19. 1833 ; Nair & Ghosh, Journ. Indian Bot. Soc. 54 : 103. 1975 ; Panigr. Kew Bull. 31 : 657. 1976.

Type : **P. chrysophylla** (Sw.) Link, Handb. Erken. Gew. 3 : 19. 1833.

**P. austroamericana** Domin, Spisy Prirod. Fak. Karlovy Univ. 88 : 7. 1928 et Kew Bull. Misc. inf. Kew 1929 ; 221. 1929.

*Distrib.* : S. India, S. America, introduced and naturalised in the parts of the old world.

**P. calomelanos** (L.) Link, Handb. Erken. Gew. 3 : 20. 1833. *Acrostichum calomelanos* L. Sp. Pl. 2 : 1072. 1753. *Pteris calomelanos* (L.) Bedd. Ferns Brit. India t. 22. 1863. *Pellaea calomelanos* (L.) Link, Fil. Sp. 61. 1841. Bedd. Handb. Ferns Brit. India 104. 1883.

*Distrib.* : Throughout India, Mexico & West Indies, South to Argentina, introduced and naturalised in the parts of the old world.

**P. chrysophylla** (Sw.) Link, Handb. Erken. Gew. 3 : 19. 1833. *Acrostichum chrysophyllum* Sw. Schrad. Journ. Bot. 1800 (2) : 12. 1801.

*Distrib.* : S. India, Trop. America ; introduced to parts of Asia (Malaya, Sri Lanka, India).

**Syngramme** J. Sm. Lond. Journ. Bot. 4 : 168. 1845.

Lectotype : **S. alsimaefolia** J. Sm. Lond. Journ. Bot. 4 : 168. t. 7 8 f. 5. 1845.

**S. vestita** Wall. ex Bedd. Ferns Brit. India t. 154. 1867 ; Handb. Ferns Brit. India 386. t. 223. 1883. *Grammitis vestita* Wall. List no. 12. 1828. (*nom. nud.*)

*Distrib.* : India (Himalayas), Nepal, China.

### ANTROPHYACEAE (Link) Ching

**Antrophyum** Kaulf. Enum. Fil. 197. 1824 ; Dixit & Nair, Journ. Indian Bot. Soc. 53 : 277. 1974.

Type : **A. reticulatum** (Forst.) Kaulf. Enum. Fil. 197. 1824.

**A. callifolium** Bl. Enum. Pl. Jav. 111. 1828.

*Distrib.* : India (South Andamans), Sri Lanka, Malaysia to Polynesia.

**A. coriaceum** (D. Don) Wall. ex Moore, Ind. Fil. 5 : 80. 1858 ; Bedd. Handb. Ferns Brit. India Suppl. 103. 1892. *Hemionitis coriacea* D. Don, Prod. Fl. Nepal 13. 1825. *Antrophyum reticulatum sensu* Bedd. Handb. Ferns Brit. India 401. 1883 (*pro parte*).

*Distrib.* : Eastern India and Eastern Himalayas, Nepal, Bhutan, China, Malay Peninsula.

**A. henryi** Hieron. Hedwigia 57 : 208. 1915 ; C. Chr. Asiatic Pterid. 313. 1931.

*Distrib.* : India (Arunachal Pradesh, Sikkim), China (Yunnan.)

**A. obovatum** Bak. Kew. Bull. Misc. Inf. 1898 : 238. 1898 ; **A. latifolium sensu** quoad Bedd. Handb. Ferns Brit. India 404. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 573. 1880 (*non* Bl.).

*Distrib.* : India (Himalayas), Indo China, Japan, China

**A. parvulum** Bl. Pl. Jav. 110. 1828. *A. reticulatum* var. *parvula* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 573. 1880 ; Bedd. Handb. Ferns Brit. India 403. 1883 (as *parvulum*). *A. obtusum* quoad Bl. Enum. Pl. Jav. 110. t. 34. f. 4. 1828.

*Distrib.* : India (Sikkim, Meghalaya), Malay Peninsula, Java.

**A. plantagineum** (Cav.) Kaulf. Enum. 197. 1824 ; Bedd. Handb. Ferns Brit. India 403. 1883. *Hemionitis plantaginea* Cav. Descr. 260. 1802. *Antrophyum reticulatum sensu* Bedd. Ferns South. India t. 52. 1865.

*Distrib.* : India (Assam, Meghalaya, Tamil Nadu, Kerala), Sri Lanka, Malay Peninsula, Malesian Islands, Philippines, Polynesian Islands.

**A. reticulatum** (Forst.) Kaulf. Enum. 198. 1824 ; Bedd. Handb. Ferns. Brit. India Suppl. 102. 1892. *Hemionitis reticulata* Forst. Prod. 79. 1876. *A. reticulatum sensu* Bedd. Handb. Ferns Brit. India 401. t. 235. 1883 (*pro parte*).

*Distrib.* : India (Assam, Meghalaya, West Bengal. Darjeeling, Sikkim, Manipur, Kerala, Tamil Nadu), Sri Lanka, Malay Peninsula, Polynesia, Queensland.

### VITTARIACEAE (Presl) Ching

**Vittaria** J. E. Smith. Mém. Acad. Turin. 5 : 413. t. 9. 1793 ; Bir. Res. Bull. Punjab Univ. (N.S.) 13 : 15. 1962 ; Dixit. Journ. Econ. & Tax. Bot. 2 : 209. 1981.

Type : *V. lineata* (L.) Smith, Mém. Acad. Turin. 5 : 413. t. 9. f. 5. 1793.

**V. amboinensis** Fée, 3 Mém. 14. t. 1. f. 1. 1851 1852 ; *Taeniopsis amboinensis* (Fée), Bedd. Ferns Brit. India t. 117. 1866. *V. scolopendrina sensu* Bedd. Handb. Ferns Brit. India 408. 1883. (*pro parte*).

*Distrib.* : India (Eastern Himalayas), Bhutan, Vietnam, Thailand, Burma, Indonesia.

**V. arunachalensis** Dixit, Journ. Econ. & Tax. Bot. 3 : 959. t. 1. f. 1 2. 1982.

*Distrib.* : India (Arunachal Pradesh).

**V. carcina** Christ, Bull. Géogr. Bot. Mans. 109. 1904.

*Distrib.* : India (Sikkim, Manipur, West Bengal), China.

**V. doniana** Hieron. Hedw. 57 : 204. 1916. var. **doniana**.

*Distrib.* : India (Arunachal Pradesh, Manipur, Sikkim), Philippines, Taiwan.

**V. doniana** Hieron. var. **intermedia** Hieron. Hedw. 57 : 204. 1916.

*Distrib.* : India (Eastern Himalayas).

**V. elongata** Sw. Syn. Fil. 109, 302. 1806. *V. elongata sensu* Bedd. Handb. Ferns Brit. India 404. 1883 (*pro parte*). *V. elongata* Sw. var. *angustifolia sensu* Panigr. Bull. Bot. Surv. India 2 : 314. 1960 (*non* Holtt. 1954). *Pteris graminifolia* Roxb. ex Griff. Calc. Journ. Sci. 4 : 502. t. 33. 1844.



*Distrib.* : Throughout India in mountainous regions ; Sri Lanka, Bangladesh, Burma, Vietnam, Laos, Malaysia, Taiwan, Philippines, China, Polynesia, Australia, Africa.

**V. flexuosa** Fée, 3 Mém. Foug. 16. 1851 1852 ; Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 575. 1880. *V. lineata sensu* Bak. in Hook. Syn. Fil. 396. 1874 (*pro parte*) ; Bedd. Handb. Ferns Brit. India 407. 1883. *Taeniopsis lineata* Bedd. Ferns South. India t. 54. 1863.

*Distrib.* : India (Arunachal Pradesh, Meghalaya, Assam, West Bengal, Uttar Pradesh), Sri Lanka, Nepal, Bhutan, Thailand.

**V. forrestiana** Ching, Sinensia 1 (12) : 191. 1931.

*Distrib.* : India (Assam, Manipur, Meghalaya), Burma, China, Vietnam, Laos, Khmer.

**V. garhwalensis** Dixit, J. Econ. & Tax. Bot. 2 : 218. f. 18. 1981.

*Distrib.* : India (North West Himalayas).

**V. himalayensis** Ching, Sinensia 1 (12) : 190. 1931.

*Distrib.* : India (North West Himalayas, Meghalaya, West Bengal).

**V. linearifolia** Ching, Sinensia 1 (12) : 183. t. 1. f. 1 3. 1931.

*Distrib.* : India (Arunachal Pradesh), Burma, China.

**V. microlepis** Hieron. Hedw. 57 : 202. 1916 ; Manickam & Ninan, New Botanist (Suppl.) 1 : 10. 1976.

*Distrib.* : India (Kerala, Tamil Nadu), Sri Lanka.

**V. ophiopogonoides** Ching, Sinensia 1 (12) : 186. 1931.

*Distrib.* : India (Himalayas), Nepal, Bhutan, China.

**V. sikkimensis** Kuhn, Linnaea 36 : 66. 1869 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 574. t. 84. f. 3. 1880 ; Bedd. Handb. Ferns. Brit. India 406. t. 239. 1883. *V. minor* Bedd. Ferns Brit. India t. 58. 1865 (*non* Fée. 1851 52). *V. minor* var *minima* Hook. Sp. Fil. 5 : 183. 1864. *V. modesta sensu* H. Ito in Hara's Fl. East. Himal. 500. 1966.

*Distrib.* : India (Arunachal Pradesh, Assam, Darjeeling & Sikkim Himalayas), China.

**V. taeniophylla** Copel. Philip. Journ. Sci. Bot. 1. Suppl. 2 : 157. 1956. *V. mediosora sensu* Ito in Haras Fl. East. Himal. 500. 1966 (*non* Hayata, 1915).

*Distrib* : India (Himalayas), Nepal, Burma, Thailand, China (Yunnan), Philippines, Taiwan.

*V. wattii* Dixit & Nair, New Botanist 5 : 41. f. 1-5. 1978.

*Distrib.* : India (Arunachal Pradesh, Nagaland, Manipur).

*V. zosterifolia* Willd. in Linn. Sp. Pl. 5 : 406. 1810. *V. lineata sensu* Bedd. Handb. Ferns Brit. India 407. 1883 (*pro parte*) : Hope, Journ. Bombay Nat. Hist. Soc. 14 : 103. 1903 (*pro parte*).

*Distrib.* : India (Eastern India and Eastern Himalayas, Andaman & Nicobar Islands), China.

#### TAENITIDACEAE (Presl) Pic. Ser.

*Taenitis* Willd. ex Schkuhr. krypt. Gew. 1 : 21. 1805.

Type : *T. blechnoides* (Willd.) Sw. Syn. Fil. 24, 220. 1806.

*T. blechnoides* (Willd.) Sw. Syn. Fil. 24, 220. 1806 ; Bedd. Ferns Brit. India t. 54. 1865 ; Handb. Ferns Brit. India 410. t. 242. 1883. *Pteris blechnoides* Willd. Phyt. 13. t. 9. f. 3. 1794.

*Distrib.* : South India, Sri Lanka, South East Asia.

#### PARKERIACEAE Hook.

*Ceratopteris* Ad. Brongn. Bull. Sci. Soc. Philom. Paris 1821 : 186. 1822 ; Lloyd, Britt. 26 (3) : 156. 1974.

Type : *C. thalictroides* (L.) Ad. Brongn. Bull. Sci. Soc. Philom. Paris 1821 : 186. 1822.

*C. cornuta* (P. Beauv.) Le Prieur, Ann. Sci. Nat. 19 : 103. t. 4A. 1830. *Pteris cornuta* P. Beauv. Fl. d' Oware 1 : 63. t. 37 (2). 1806.

*Distrib.* : India (Assam), Bangladesh, Burma, Africa from Senegal to Sudan and South to Tanzania, Madagascar, Socotra, Saudi Arabia, Iraq, Indonesia, N. Australia.

*C. pteridoides* (Hook.) Hieron. in Engl. Jahrb. 84 : 561. 1905 (*pteroides*). *Parkeria pteridoides* Hook. Exot. Fl. 2 : 145. 1925.

*Distrib.* : India (West Bengal), South America from Amazon river basin to Peru and North to Columbia and Venezuela ; Central America, Brazil, Argentina, Paraguay, North Vietnam.

**C. thalictroides** (L.) Ad. Brongn. Bull. Sci. Soc. Philom. Paris 1821 : 186. 1822 ; Bedd. Ferns South. India t. 75. 1863 ; Handb. Ferns Brit. India 123. t. 83. 1883. *Acrostichum thalictroides* L. Sp. Pl. 2 : 1070. 1753.

*Distrib.* : Tropics and subtropics of the world.

### MARSILEACEAE Mirb.

**Marsilea** L. Sp. Pl. 2 : 1099. 1753 ; Gupta, Marsilea Mon. 26-1962.

Lectotype : *M. quadrifolia* L. Sp. Pl. 2 : 1099. 1753.

**M. aegyptiaca** Willd. in Linn. Sp. Pl. 5 : 540. 1810.

*Distrib.* : India (Orissa. Rajasthan), Egypt.

**M. brachycarpa** A. Br. Monatsber. Ak. Berl. 1863 : 420. 1864.

*Distrib.* : South India, Burma.

**M. brachypus** A. Br. Monatsber. Ak. Berl. 1863 : 421. 1864.

*Distrib.* : India (Nilgiris, Amritsar), Australia.

**M. condensata** Bak. Journ. Bot. 1886 : 281. 1886.

*Distrib.* : India (Rajasthan).

**M. coromandelica** Burm. f. Fl. Ind. t. 62. f. 3. 1768.

*Distrib.* : India (Coromandel Coast).

**M. crenata** Presl, Rel. Haenk. 1 : 84. t. 12. f. 13. 1825.

*Distrib.* : India (Himalayas), Malayasia.

**M. gracilentia** A. Br. Monatsber. Ak. Berl. 1863 : 421. 1864.

*Distrib.* : India (Concan, Kemnangudi).

**M. maheshwarii** Gupta, Amer. Fern Journ. 58 : 70. 1968.

*Distrib.* : India (Pondichery).

**M. major** (Haines) Chowdhury, Res. Living Pterid. 49. 1971 ;  
**M. minuta** L. var. *major* Haines, Botany Bihar & Orissa 3 : 1272. 1924.

*Distrib.* : India (Bihar).

**M. minuta** L. Mant. 308. 1771.

*Distrib.* : Throughout India, Java, Philippines.

**M. poonensis** Kolhatkar, Kew Bull. 1957 : 293. f. 1. 1957.

*Distrib.* : India (Poona).

**M. quadrifolia** L. Sp. Pl. 2 : 1099. 1753.

*Distrib.* : India (Kashmir), Europe, Australia, China, Japan, in temperate regions.

**M. rajasthanensis** Gupta, Marsilea Bot. Mon. 29. 1962.

*Distrib.* : India (Rajasthan).

**M. rajasthanensis** Gupta var. **ballardii** (Gupta) Gupta, Marsilea Bot. Mon. 30. 1962. *M. ballardii* Gupta, Journ. Bomb. Nat. Hist. Soc. 53 : 289. 1955.

*Distrib.* : India (Rajasthan).

#### HYMENOPHYLLACEAE Link

**Gonocormus** v.d. Bosch, Verslag, Meded, Kon. Akad. Wetensch, Afd. Natur. 21 : 321. 1861.

Lectotype : **G. prolifer** (Bl.) Prantl, Hymen. Jav. 11 : t. 5. 1861.

**G. diffusus** (Bl.) v.d. Bosch, Hymen. Jav. 9 : t. 4. 1859. *Trichomanes diffusum* Bl. Enum. Pl. Jav. 225. 1828.

*Distrib.* : Himalayas to Java.

**G. prolifer** (Bl.) Prantl, Hymen. Jav. 11 : t. 6. 1861. *Trichomanes proliferum* Bl. Enum. Pl. Jav. 224. 1828 ; Bedd. Ferns South. India t. 262. 1865 ; Handb. Ferns Brit. India 39. 1883.

*Distrib.* : S. India. Sri Lanka, Java, Philippine Islands.

**G. saxifragoides** (Presl) v.d. Bosch. Hymen. Jav. 9. 1861. *Trichomanes saxifragoides* Presl, Hymen. 19. 39. 1843. *Trichomanes parvulum* Poir, Encycl. 8 : 64. 1808 ; Bedd. Ferns South. India t. 179. 1865.

*Distrib.* : S. India, Japan, China, Java, Polynesian Islands, Madagascar, Johanna Islands and the Moluccas.

**Hymenophyllum** Sm. Mém. Acad. Sci. Turin. 5 : 418. t. 9. f. 8. 1793.

Lectotype : *H. tunbrigense* (L.) Sm. in Sowerby Engl. Bot. t. 162. 1794.

*H. barbatum* (v. d. Bosch) Bak. Syn. Fil. 68. 1868. *Leptocionium* v. d. Bosch, Ned. kr. Arch. 5 (3) : 146. 1863.

*Distrib.* : India (Assam), Korea, Japan, Taiwan, China.

*H. exiguum* Bedd. Ferns Brit. India t. 275. 1868. *Trichomanes exiguum* (Bedd.) Bak. Syn. Fil. 464. 1874 ; Bedd. Handb. Ferns Brit. India 37. 1883.

*Distrib.* : South India, Sri Lanka.

*H. simonsianum* Hook. 2nd Cent. t. 13. 1860 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 438. 1880 ; Bedd. Ferns Brit. India t. 281. 1868. Handb. Ferns Brit. India 34. 1880.

*Distrib.* : Himalayas to Formosa.

*Mecoduim* Presl ex Copel. Philip. Journ. Sci. 67 : 17. 1938.

Type : *M. sanguinolentum* (G. Forst.) Presl ex Copel. Philip. Journ. Sci. 67 : 17. 1938.

*M. badium* (Hook. et Grev.) Copel. Philip. Journ. Sci. 67 : 23. 1938. *Hymenophyllum badium* Hook. et Grev. Icon. Fil. t. 76. 1828. *H. javanicum* var. *badium* (Hook. et Grev.) Bedd. Ferns Brit. India t. 282. 1868 ; Handb. Ferns Brit. India 33. 1883.

*Distrib.* : India (Sikkim), Burma, Malay Peninsula.

*M. crispatum* (Wall. ex Hook. & Grev.) Copel. Philip. Journ. Sci. 67 : 23. 1938. *Hymenophyllum crispatum* Wall. ex Hook. & Grev. Icon. t. 77. 1828. *H. javanicum sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 437. 1880 ; Bedd. Handb. Ferns Brit. India 32. 1883. ( *pro parte* ).

*Distrib.* : Eastern Himalayas.

*M. exsertum* (Wall. ex Hook.) Copel. Philip. Journ. Sci. 67 : 23. 1938. *Hymenophyllum exsertum* Wall. list no. 170. 1828 (*nom. nud.*) ex Hook. Sp. Fil. 1 : 109. t. 38A. 1844 ; Bedd. Ferns South. India t. 9. 1863 ; Handb. Ferns Brit. India 30. t. 16. 1883.

*Distrib.* : Throughout India in mountainous regions, Burma, Sri Lanka.

*M. javanicum* (Spr.) Copel. Philip. Journ. Sci. 67 : 20. 1938. *Hymenophyllum javanicum* Spr. Syst. 4 : 132. 1827 ; Bedd. Handb. Ferns Brit. India 32. 1883. *H. australe* Wild. in Linn. Sp. Pl. 5 : 527. 1810.

*H. crispatum* Wall. List no. 169. 1828 ex Bedd. Ferns South. India t. 207. 1865.

*Distrib.* : Throughout India in mountainous regions ; Sri Lanka, Burma, Malay Paninsula, Australia, New Zealand, Mauritius, Bourbon, Philippines.

*M. levingei* (Clarke) Copel. Philip. Journ. Sci. 75 : 359. 1941. *Hymenophyllum levingei* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 439. t. 49. f. 3. 1880 ; Bedd. Handb. Ferns Brit. India 36. 1883.

*Distrib.* : India (Sikkim), Bhutan.

*M. polyanthos* (Sw.) Copel. Philip. Journ. Sci. 67 : 19. 1938. *Hymenophyllum polyanthos* Sw. Schrad. Journ. Bot. 1800 (2) : 102. 1801 ; Bedd. Handb. Ferns Brit. India 31. 1883. *H. polyanthos* var. *minor* Bedd. Ferns Brit. India t. 306. 1869. *H. blumeanum* Spr. Syst. Veg. 4 : 131. 1827 ; Bedd. Ferns South. India t. 266. 1865. *Mecodium blumeanum* (Spr.) Nayar et Kaur, Comp. to Bedd. Handb. 11. 1974.

*Distrib.* : Throughout India in mountainous regions ; Burma, Sri Lanka, Tropical and subtropical regions of the world.

*M. polyanthos* (Sw.) Copel. var. *blumeana* (Bedd.) Nair, Bull. Bot. Surv. India 11 : 186. 1969. *Hymenophyllum polyanthos* var. *blumeanum* Bedd. Ferns Brit. India t. 308. 1869 ; Handb. Ferns Brit. India 32. 1883.

*Distrib.* : S. India.

*M. polyanthos* (Sw.) Copel. var. *microglossum* (Bedd.) Nair, Bull. Bot. Surv. India 11 : 186. 1969. *Hymenophyllum polyanthos* var. *microglossum* Bedd. Ferns Brit. India t. 306. 1869 ; Handb. Ferns Brit. India 32. 1883.

*Distrib.* : S. India.

*M. undulatum* (Sw.) Copel. Philip. Journ. Sci. 67 : 26. 1938. *Hymenophyllum undulata* Sw. Schrad. Journ. 1800 (2) : 101. 1801. *H. dentniculatum* var. *flaccidum* Bedd. Handb. Ferns Brit. India 35. 1883.

*Distrib.* : India (Meghalaya), Burma.

*Meringium* Presl, Hymen. 19. t. 6. f. A, B. 1843.

Type : *M. meyenianum* Presl, Hymen. 24. t. 8. f. A, B. 1843.

*M. acanthoides* (v. d. Bosch) Copel. Philip. Journ. Sci. 67 : 42. 1938 ; Ghosb. J. Econ. Tax. Bot. 3 (2) : 578. 1982. *Didymoglossum acanthoides* v. d. Bosch. Plant Jungh. 1 : 16. 1856.

*Distrib.* : India (Eastern Himalayas), Malesia.

**M. edentulum** (v.d. Bosch) Copel. Philip. Journ. Sci. 67 : 41. 1938.  
*Leptocionium edentula* v.d. Bosch, Ned. Kr. Arch. 5 (3) : 148. 1863.

*Distrib.* : India (Assam), Malesia.

**M. flaccidum** (v. d. Bosch) Nair, Bull. Bot. Surv. India 11 : 186. 1969. *Leptocionium flaccidum* v. d. Bosch, Ned. Kr. Arch. 5 : 149. 1863. *Hymenophyllum khasianum* Bak. in Hook. & Bak. Syn. Fil. 464. 1874 ; Bedd. Ferns Brit. India t. 276. 1868. *H. denticulatum* Sw. var. *flaccidum* Bedd. Handb. Ferns Brit. India 35. 1883.

*Distrib.* : India (Meghalaya).

**M. denticulatum** (Sw.) Copel. Philip. Journ. Sci. 67 : 26. 1938. *Hymenophyllum denticulatum* Sw. Schrad. Journ. Bot. 1800 (2) : 100. 1801 ; Bedd. Ferns Brit. India t. 278. 1868 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 438. 1880 ; Bedd. Handb. Ferns Brit. India 34. 1883. *H. neesii* Hook. Sp. Fil. 1 : 99. 1844 ; Bedd. Ferns South. India t. 279. 1865.

*Distrib.* : India (Meghalaya), Bhutan, Burma, Jawa.

**Microgonium** Presl, Hymen. 19. t. 6. f. A, B. 1843.

Type : **M. cuspidatum** (Willd.) Presl, Hymen. 19. t. 6. f. A. B. 1843.

**M. bimarginatum** v. d. Bosch, Hymen. Jav. 7. 1861. *Trichomanes neilgherense* Bedd. Ferns South. India t. 6. 1863 ; Handb. Ferns Brit. India 37. 1883.

*Distrib.* : S. India, Sri Lanka.

**M. motleyi** v.d. Bosch, Hymen. Jav. 5. t. 1. 1861. *Trichomanes motleyi* (v.d. Bosch) v.d. Bosch, Ned. Kr. Arch. 5 (2) : 145. 1861 ; Bedd. Handb. Ferns Brit. India 36. 1883. *T. henzeiense* Bedd. Ferns Brit. India t. 183. 1866.

*Distrib.* : India (Andamans) Sri Lanka, Burma, Borneo, New Caledonia.

**M. sublimbatum** (C. Muell.) v.d. Bosch, Hymen. Jav. 6. t. 2. 1861. *Trichomanes sublimbatum* C. Muell. Bot. Zeit. 12 : 737. 1854.

*Distrib.* : India (Assam), Indo China, Malaysia to Papua.

**Microtrichomanes** (Mett.) Copel. Philip. Journ. Sci. 67 : 35. 1938.

Type : **M. digitatum** (Sw.) Copel. Philip. Journ. Sci. 67 : 35. 1938.

**M. nitidulum** (v.d. Bosch) Copel. Philip. Journ. Sci. 67 : 37. 1938.

*Trichomanes nitidulum* v.d. Bosch, Pl. Jungh. 1 : 547. 1856. *T. corticola* Bedd. Ferns South. India. t. 264. 1865.

*Distrib.* : North India, Sri Lanka, Malay Peninsula, Mauritius, Bourbon, Java, Polynesian Islands.

**Pleuromanes** (Presl) Presl, Epim. Bot. 258. 1851.

Type *P. acutum* (Presl) Presl, Epim. Bot. 258. 1851.

*P. pallidum* (Bl.) Presl, Epim. Bot. 258. 1849. *Trichomanes pallidum* Bl. Enum. Pl. Jav. 225. 1828.

*Distrib.* : India (Eastern Himalayas), Sri Lanka, Sumatra to Polynesia.

**Selenodesmium** (Prantl) Copel. Philip. Journ. Sci. 67 : 80. 1938. *Selenodesmium* Prantl, Hymen. 53. 1875. as section of *Trichomanes*.

Lectotype : *S. rigidum* (Sw.) Copel. Philip. Journ. Sci. 67 : 80. 1938.

*S. rigidum* (Sw.) Copel. Philip. Journ. Sci. 67 : 80. 1938. *Trichomanes rigidum* Sw. Prod. 137. 1788 ; Bedd. Ferns South. India t. 8. 1863 ; Handb. Ferns Brit. India 46. 1883.

*Distrib.* : S. India, Sri Lanka, Malaya Peninsula, Tropical America, West Indies, Polynesian Islands, New Zealand, Japan, S. China, S. Africa, Angola, Fernando, Poland, the Mascareen Islands.

**Sphaerocionium** Presl, Hymen. 33. t. 4. f. 10 B, C. 1843.

Lectotype : *S. hirtum* (L.) Presl, Hymen. 33. t. 4. f. 10. B, C. 1843.

*S. ciliatum* (Sw.) Presl, Hymen. 34. 1843 ; Nayar and Kaur. Comp. to Bedd. Handb. 11. 1974. *Hymenophyllum ciliatum* Sw. Schrad. Journ. 1800 (2) : 100. 1801 ; Bedd. Ferns Brit. India t. 305. 1869 ; Handb. Ferns Brit. India 33. 1883.

*Distrib.* : India (Sikkim,) Tropical America, Tropical Africa, Mauritius, Madagascar, Bourbon, Seychelles, Johannan Islands, New Zealand.

**Vandenbosohia** Copel. Philip. Journ. Sci. 67 : 51. 1938.

Type : *V. radicans* (Sw.) Copel. Philip. Journ. Sci. 67 : 51. 1938.

*V. auriculata* (Bl.) Copel. Philip. Journ. Sci. 67 : 55. 1938. *Trichomanes auriculatum* Bl. Jav. 225. 1828 ; Bedd. Ferns Brit. India 182. 1867 ; Handb. Ferns Brit. India 44. 1883. *Trichomanes dissectum* J. Sm. ex Hook. Sp. Fil. 1 : 140. 1844 ; Bedd. Ferns Brit. India t. 182. 1866.

*Distrib.* : India (Himalayas), Japan, Formosa, Philippines, Java, Guiana.



**V. gigantea** (Bory ex Willd.) Pic. Ser. Webbia 29 (1) : 197. 1968. *Trichomanes giganteum* Bory ex Willd. in Linn. Sp. Pl. 5 : 514. 1810.

*Distrib.* : India (Sikkim, Arunachal Pradesh), Maritius.

**V. latifrons** (v.d. Bosch) Copel. Philip. Journ. Sci. 67 : 56. 1938. *Trichomanes latifrons* v.d. Bosch, Ned. Kr. Arch. 5 (3) : 56. 1859. *T. pyxidiferum* L. Sp. Pl. 2 : 1098. 1753 ; Bedd. Handb. Ferns India 42. 1883. (*pro parte*). *T. pyxidiferum* var. *limbatum* Bedd. Ferns Brit. India Suppl. t. 348. 1876 ; Handb. Ferns Brit. India 43. 1883.

*Distrib.* : India (Himalayas), Burma, Bangladesh, Sri Lanka, Tropics of the world.

**V. maxima** (Bl.) Copel. Philip. Journ. Sci. 67 : 54. 1938. *Trichomanes maxima* Bl. Enum. Pl. Jav. 228. 1828.

*Distrib.* : India (Andaman Islands), Sumatra to Tahiti.

**V. orientalis** (C. Chr.) Ching, Acta Phytotax. Sinica 8 : 187. 1959. *Trichomanes radicans* var. *orientalis* (C. Chr.) Lelling. Amer. Fern Journ. 58 : 157. 1968. *T. radicans* var. *anceps* Wall. ex Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 441. 1880.

*Distrib.* : Eastern India and Eastern Himalayas, China.

**V. radicans** (Sw.) Copel. Philip. Journ. Sci. 67 : 51. 54. 1938 ; *Trichomanes radicans* Sw. Schrad. Journ. 1800 (2) : 97. 1801 ; Bedd. Ferns Brit. India t. 181. 1867 ; Handb. Ferns Brit. India 43. 1883. *T. bimarginatum* Bedd. Ferns Brit. India Suppl. t. 349. 1876 ; Handb. Ferns Brit. India 43. 1883. *T. birmanicum* Bedd. Ferns Brit. India Suppl. 3. 1876.

*Distrib.* : Himalayas, Nepal to Bhutan, Burma and temperate regions of both hemispheres.

**V. schmidiana** (Zenker ex Taschner) Copel. Philip. Journ. Sci. 67 : 53. 1938. *Trichomanes Schmidianum* Zenker ex Taschner, Dissert. 34. t. 1. f. 1. 1843.

*Distrib.* : S. India.

**V. titibuensis** Ito, Journ. Jap. Bot. 24 : 125. f. 1. 1949.

*Distrib.* : India, (Himalayas), Japan.

#### HYMENOPHYLLOPSIDACEAE Pic. - Ser.

**Cephalomanes** Presl, Hymen. 17. t. 5. 1843.

Type : *C. atrovirens* Presl, Hymen. 17. t. 5. 1843.

**C. javanicum** (Bl.) v.d. Bosch, Hymen. Jav. 30. 1861. *Trichomanes javanicum* Bl. Enum. Pl. Jav. 224. 1828 ; Bedd. Ferns Brit. India t. 180. 1867 ; Handb. Ferns Brit. India 44. t. 21. 1883.

*Distrib.* : Eastern India, Bangladesh, Burma, Malay Peninsula, Borneo, Java, Polynesian Islands, Madagascar.

**Crepidomanes** (Presl) Presl, Epim. Bot. 258. 1849.

Type : **C. intramarginale** (Hook. et Grev.) Presl, Epim. Bot. 258. 1849.

**C. bilabiatum** (Nees ex Bl.) Copel. Philip. Journ. Sci. 67 : 59. 1938. *Trichomanes bilabiatum* Nees ex Bl. Nova Acta 11 : 123. t. 13. 1823.

*Distrib.* : India (Nicobar Islands), Sri Lanka, Malesia.

**C. euphlebiium** (v.d. Bosch) Dixit & Ghosh, *comb. nov.* *Didymoglossum euphlebiium* v.d. Bosch, Ned. Kr. Arch. 5 (3) : 142. 1863. *Trichomanes euphlebiium* (v.d. Bosch) Panigr. phytologia 31 (3) : 256. 1975.

*Distrib.* : India (Sikkim), Bhutan.

**C. griffithii** (v.d. Bosch) Dixit & Ghosh, *comb. nov.* *Didymoglossum griffithii* v.d. Bosch in Ned. Kr. Arch. 5 (3) : 141. 1863. *Trichomanes griffithii* (v.d. Bosch) Panigr. Phytologia 31 (3) : 256. 1975.

*Distrib.* : India (Andaman Islands), Burma.

**C. insigne** (v.d. Bosch) Fu, III. Handb. Chin, Pl. Pterid. 39. 1957. *Didymoglossum insigne* v.d. Bosch, Ned. Kr. Arch. 5 (3) : 143. 1863. *Trichomanes insigne* (v.d. Bosch) Bedd. Ferns Brit. India t. 284. 1868. *T. bipunctatum* var. *insigne* (v.d. Bosch) Bedd. Ferns Brit. India t. 284. 1868 ; Handb. Ferns Brit. India 42. 1883.

*Distrib.* : Throughout the tropics of the world.

**C. latealatum** (v.d. Bosch) Copel. Philip. Journ. Sci. 67 : 60. 1938. *Trichomanes late - alatum* v.d. Bosch, Ned. Kr. Arch. 5 (3) : 138. 1863. *T. bipunctatum* Poir, Encycl. 8 : 69. 1808 ; Bedd. Handb. Ferns Brit. India 41. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan.

**C. latemarginale** (D. C. Eaton) Copel. Philip. Journ. Sci. 67 : 60. 1938. *Trichomanes latemarginale* D. C. Eaton, Proc. Amer. Acad. 4 : 111. 1858. *T. kurzii* Bedd. Ferns Brit. India t. 286. 1868 ; Handb. Ferns Brit. India 40 t. 20. 1883. *T. intramarginale* Hook. & Grev. Icon. Fil. t. 211. 1831 ; Bedd. Ferns South. India t. 208. 1865 ; Handb. Ferns Brit. India 41. 1883.

*Distrib.* : South India. Sri Lanka.

**C. racemosum** (v.d. Bosch) Ching in Chein et Chun, Fl. Republ. Pop. Sin. 2 : 170. 1959.

*Distrib.* : India (Assam), China.

#### DICKSONIACEAE Hook. ex Bower

**Cibotium** Kaulf. Berlin Jaharb. Pharm. 21 : 53. 1820.

Type : **C. chamissoi** Kaulf. Enum. Fil. 230. t. 1. f. 14. 1824.

**C. assamicum** Hook. Sp. Fil. 1 : 83. t. 29 B. 1844. *Cibotium barometz sensu* Bedd. Handb. Ferns Brit. India 24. 1883 (*pro parte*).

*Distrib.* : India (Assam), Tonkin.

**C. barometz** (L.) J. Sm. Lond. Journ. Bot. 1 : 437. 1842 ; Bedd. Handb. Ferns Brit. India 24. 1883 (*pro parte*). *Polypodium barometz* L. Sp. Pl. 2 : 1092. 1753.

*Distrib.* : Eastern India, Burma, Malay Islands, China, Australia, Malesia.

#### CYATHEACEAE Kaulf.

**Cyathea** Sm. Mém. Acad. Turin 5 : 416. 1793 ; Holtt. Kew Bull. 19 : 480. 1965.

Lectotype ; **C. arborea** (L.) Sm. Mém. Acad. Turin. 5 : 417. 1793.

**C. albosetacea** (Bedd.) Copel. Philip. Journ. Sci. ser. C. (Bot.) 4 : 55. 1909. *Alsophila albosetacea* Bedd. Ferns Brit. India Suppl. 2. 1876 ; Handb. Ferns Brit, India 16. 1883.

*Distrib* : India (Nicobar Islands).

**C. andersonii** (J. Scott ex Bedd.) Copel. Journ. Sci. ser. C. (Bot.) 4 : 56. 1909. *Alsophila andersonii* J. Scott ex Bedd. Ferns Brit. India t. 310. 1869 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 433. 1880 ; Bedd. Handb. Ferns Brit. India 12. 1883.

*Distrib.* : India (Meghalaya, Assam, Darjeeling & Sikkim Himalayas), Bhutan, China.

**C. brunoniana** (Wall. ex Hook.) Clarke & Bak. in Journ. Linn. Soc. Bot. 24 : 409. 1888 ; *nomen tantum*, descr. et specim. omn. excl. *Alsophila brunoniana* Wall. ex Hook. Sp. Fil. 1 : 52. 1844 ; Bedd. Ferns Brit. India t. 86. 1865. *A. sollyana* Griff. Notulae 2 : 624. 1849. *A. contaminans* var. *brunoniana* J. Scott in Trans. Linn. Soc. 30 : 35. t. 15. 1874. *A. glauca sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 432. 1880 ; *pro parte* Bedd. Handb. Ferns Brit. India 12. 1883 ; *pro parte* (non (Bl.) J. Sm. 1841. *Hemitelia brunoniana* (Wall. ex Hook.) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 430. 1880. *Amphicosmia brunoniana* Bedd. Handb. Ferns Brit. India 10. 1883.

*Distrib.* : India (Western Himalayas, Eastern India), Bangladesh, Burma, Vietnam.

**C. chinensis** Copel. Philip. Journ. Sci. Bot. 3 : 355. 1909. *Hemitelia brunoniana sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 430. 1880. incl. var. *scottii*, non *Alsophila brunoniana* Hook. Sp. Fil. 1 : 52. 1844. *Amphicosmia brunoniana sensu* Bedd. Handb. Ferns Brit. India 10. 1883, (non Hook.) *Cyathea brunoniana sensu* Clarke et Bak. Journ. Linn. Soc. Bot. 24 : 409. 1888.

*Distrib.* : India (Eastern Himalayas, Meghalaya) Bhutan, China, Burma, Vietnam.

**C. contaminans** (Wall. ex Hook.) Copel. Philip. Journ. Sci. ser. C. Bot. 4 : 60. 1909. *Alsophila contaminans* Wall. ex Hook. Sp. Fil. 1 : 52. t. 18. f. 2. 1844 ; Bedd. Ferns Brit. India t. 85. 1865. *A. glauca* (Bl.) J. Sm. Journ. Bot. 3 : 419. 1841 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 432. (*pro parte*) 1880 ; Bedd. Handb. Ferns Brit. India 12. 1883 (*pro parte*).

*Distrib.* : India (Sikkim), Malaya, Thailand.

**C. crinita** (Hook.) Copel. Philip. Journ. Sci. ser. C. Bot. 4 : 40. 1909. *Alsophila crinita* Hook. Icon. Pl. 7. t. 671. 1844 ; Bedd. Ferns South. India t. 59. 1863 ; Handb. Ferns Brit. India 16. 1883.

*Distrib.* : S. India, Sri Lanka.

**C. gigantea** (Wall. ex Hook.) Holtt. Gard. Bull. Str. Settl. 8 : 318. 1935. *Alsophila gigantea* Wall. ex Hook. Sp. Fil. 1 : 53. 1844. *A. glabra sensu* Bedd. Ferns South. India t. 60. 1883 ; Handb. Ferns Brit. India 14. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 432. 1880.

*Distrib.* : Throughout India in hilly regions, Nepal, China, Burma, Thailand, Laos, Vietnam, Sri Lanka, Bangladesh.

**C. henryi** (Bak.) Copel. Philip. Journ. Sci. ser. C. Bot. 4 : 38. 1909. *Alsophila henryi* Bak. in Bull. Misc. inf. Kew 1898. 229. 1898.

*Distrib.* : India (Sikkim), China.

**C. khasyana** (Moore ex Kuhn) Domin, Acta Bot. Bohem. 362. 1930. *Alsophila khasyana* Moore ex Kuhn, Linnaea 36 : 154. 1869. *A. ornata* Scott ex Bedd. Ferns Brit. India t. 342. 1870 ; Handb. Ferns Brit. India 12. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 432. 1880. *A. oldhami* Bedd. Ferns Brit. India t. 343. 1870 ; Handb. Ferns Brit. India 13. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1. 433. 1880 ; *A. sikkimensis* Clarke & Bak. in Journ. Linn. Soc. Bot. 24 : 409. 1888 ; not *A. ornata* var. *sikkimensis* Bedd. in Journ. Bot. 51 : 225. 1893, nor *A. latebrosa* var. *ornata* Bedd. in Bull. Misc. inf. Kew 1909 : 423. 1909.

*Distrib.* : India (Eastern India, Eastern Himalayas), Burma.

**C. nilgirensis** Holtt. Kew. Bull. 19 : 468. 1965. *Alsophila latebrosa* Hook. var. *schmidiana* Kunze, Linnaea 24 : 294. 1851. *A. latebrosa* Hook. Sp. Fil. 1 : 37. 1844, *pro parte*, quoad Bedd. Handb. Ferns Brit. India 11. 1883.

*Distrib.* : South India.

**C. spinulosa** Wall. ex Hook. Sp. Fil. 1 : 25. t. 12. 1844 ; Bedd. Ferns South. India t. 57. 1863 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 430. 1880 ; Bedd, Handb. Ferns Brit. India 6. 1883 ; Suppl. 2. 1892. *Alsophila decipiens* Scott ex Bedd. Ferns Brit. India t. 311. 1869. *Hemitelia decipiens* (Scott) Scott, Trans. Linn. Soc. 30 : 33. t. 14. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 430. 1880. *Amphicosmia decipiens* (Scott) Bedd. Ferns Brit. India Suppl. 1. 1876 ; Handb. Ferns. Brit. India 10. 1883 ; Suppl. 2. 1892. *Hemitelia beddomei* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 429. 1880. *Cyathea decipiens* (Scott) Clarke & Bak. Journ. Linn. Soc. Bot. 24 : 409. 1888.

*Distrib.* : Throught India in hilly regions, Nepal, Bhutan, China, Burma, Thailand, Formosa, Japan.

#### DENNSTAEDTIACEAE Pic. Ser.

**Dennstaedtia** Bernh. Schrad. Journ. Bot. 1880 (2) : 124. 1801.

Type : **D. flaccida** (Forst.) Bernh. Schrad. Journ. Bot. 1800 (2) : 124. t. 1. f. 3. 1801.

**D. scabra** (Wall. ex Hook.) Moore, Ind. Fil. 307. 1961 ; Bedd. Handb. Ferns Brit. India 24. t. 12. 1883. *Dicksonia scabra* Wall. ex Hook. Sp. Fil. 1 : 80. t. 28 B. 1844 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 436. 1880.

*Distrib.* : India (Punjab to Assam), Sri Lanka, Burma, Indo - China, China, Korea, Formosa, Japan, Philippines, Malay Peninsula, Borneo, Celebes.

**Emodiopteris** Ching et Wu, Acta Phytotax. Sin. 16 (4) : 21. 1978.

Type : **E. appendiculata** (Wall. ex Hook.) Ching et Wu, Acta Phytotax. Sin. 16 (4) : 21. 1978.

**E. appendiculata** (Wall. ex Hook.) Ching et Wu, Acta Phytotax. sin. 16 (4) : 21. 1978. *Dicksonia appendiculata* Wall. ex Hook. Sp. Fil. 1 : 79. t. 27 C. 1844 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 436. 1880. *Dennstaedtia appendiculata* (Wall. ex Hook.) J. Sm. Hist. Fil. 265. 1875 ; Bedd. Handb. Ferns Brit. India 26. 1883. *Patania appendiculata* (Wall. ex Hook.) Bedd. Ferns Brit. India Suppl. 2. 1876.

*Distrib.* : India (Himalayas), China.

**E. appendiculata** var. **elwesii** (Bedd.) Dixit, *comb. nov.* *Dennstaedtia elwesii* Bedd. Ferns Brit. India Suppl. t. 347. 1876 ; Handb. Ferns Brit. India 26. 1883. *D. appendiculata* var. **elwesii** (Bedd.) Bedd. Handb. Ferns Brit. India Suppl. 7. 1892.

*Distrib.* : India (Sikkim).

**Histiopteris** (Agardh) J. Sm. Hist. Fil. 294. 1875.

Type : **H. incisa** (Thunb.) J. Sm. Hist. Fil. 295. 1875.

**H. incisa** (Thunb.) J. Sm. Hist. Fil. 295. 1875. *Pteris incisa* Thunb. Prod. Fl. Cap. 171. 1800 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 471. 1880. *Litobrachia incisa* Presl, Tent. Pterid. 149. 1836 ; Bedd. Handb. Ferns Brit. India 120. t. 62. 1883. *L. aurita* Bedd. Ferns South. India t. 221. 1865.

*Distrib.* : Throughout India in mountainous regions, tropics and subtropics of the world.

**Microlepia** Presl, Tent. Pterid. 124. 1836 ; Nayar & Kaur, Bull. Nation. Bot. Gard. Lucknow no. 79. 12. 1963.

Lectotype : **M. polypodioides** (Sw.) Presl, Tent. Pterid. 125. 1825.

**M. calvescens** var. **intramarginalis** (Tagawa) Shieh in Quart. Journ. China For. 6 (4) : 92. 1973. *M. strigosa* (Thunb.) Presl var. *intramarginalis* Tagawa, Acta Phytotax. Geobot. 10 : 202. 1941.

*Distrib.* : India (Meghalaya), Taiwan.

**M. haflangensis** Nayar & Kaur, Bull. Nation. Bot. Gard. Lucknow no. 94. 8. f. 2-3. 1964.

*Distrib.* : Eastern India.

**M. hancei** Prantl, Arb. Bot. Gart. Breslau 1 : 35. 1892. *Davallia polypodioides* Benth. Fl. Hongk. 461. 1961.

*Distrib.* : India (Meghalaya), Hongkong.

**M. khasiyana** (Hook.) Presl, Epim. Bot. 95. 1849. *Davallia khasiyana* Hook. Sp. Fil. 1 : 173. t. 47 A. 1856.

*Distrib.* : India (Himalayas).

**M. kurzii** (Clarke) Bedd. Handb. Ferns Brit. India 66. 1883. *Davallia kurzii* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 446. 1880.

*Distrib.* : Eastern India, Burma.

**M. marginata** (Houtt.) C. Chr. Ind. Fil. 212. 1905 ; 427. 1906. *Polypodium marginatum* Houtt. Pfl. Syst. 12. 199. 1786. *Microlepia marginalis* Bedd. Ferns Brit. India 64. 1883.

*Distrib.* : India (North West Himalayas, Eastern India), Japan Formosa.

**M. marginata** var. *calvescens* (Hook.) Nair, Bull. Bot. Surv. India 11. 186. 1969. *Davallia calvescens* Hook. Sp. Fil. 1 : 172. t. S8B. 1846. *M. marginalis* var. *calvescens* (Hook.) Bedd. Ferns Brit. India 64. 1883.

*Distrib.* : India (N.W.) Himalayas).

**M. pilosula** Wall. ex Presl, Tent. Pterid. 125. 1836, 1964. *Davallia polypodioides* var. *pilosula* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 448. 1880.

*Distrib.* : Tropics of Asia.

**M. platyphylla** (D. Don) J. Sm. Lond. Journ. Bot. 1 : 427. 1842 ; Bedd. Ferns South. India t. 13. 1863 ; Handb. Ferns Brit. India 66. t. 33. 1883 ; *Davallia platyphylla* D. Don, Prod. Fl. Nepal 10. 1825.

*Distrib.* : India (Himalayas, South India), Nepal, Bhutan, Sri Lanka.

**M. speluncae** (L.) Moore, Ind. Fil. 93. 1857 ; Bedd. Handb. Ferns Brit. India 67. 1883. *Polypodium speluncae* L. Sp. Pl. 2 : 1093. 1753.

*Distrib.* : India (Himalayas, South India), Bangladesh, Sri Lanka, Malay Peninsula, Malaya Islands, Polynesia, Tropical America.

**M. strigosa** (Thunb.) Presl. Epim. Bot. 95. 1849 ; Bedd. Ferns.

South. India t. 255. 1865 ; Handb. Ferns Brit. India 67. 1883. *Trichomanes strigosa* Thunb. Fl. Jap. 339. 1784. *Dicksonia strigosa* (Thunb.) Clarke, Trans. Linn. Soc. 2 : 341. 1794. *Davallia polypodioides* D. Don var. *strigosa* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 448. 1880.

*Distrib.* : India (Himalayas, South India), Sri Lanka, Malay Peninsula, Malay Islands, Polynesia.

*M. todayensis* Christ, Philip. Journ. Sci. 3 : 272. 1908.

*Distrib.* : India (Himalayas), Minadano.

*M. trapeziformis* (Roxb. ex Griff.) Kuhn, Chaetpot. 347. 1882. *Davallia trapeziformis* Roxb. ex Griff. Calc. Journ. Sci. 4 : 516. 1844. *Microlepia speluncae* var. *rhomboidea* Bedd. Handb. Ferns Brit. India 68. 1883. *M. polypodioides* Bedd. Ferns South. India t. 15. 1863.

*Distrib.* : Tropics of Asia.

#### MONACHOSORACEAE Ching ex Ching

*Monachosorum* Kunze, Bot. Zeit. 6 : 119. 1848.

Type : *M. davallodes* Kunze, Bot. Zeit. 6 : 119. 1848.

*M. subdigitatum* (Bl.) Kuhn, Chaetopt. 345. 1882. *Aspidium subdigitatum* Bl. Enum. Pl. Jav. 171. 1828. *Phegopteris subdigitata* (Bl.) Bedd. Handb. Ferns Brit. India 295. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan, Malay Peninsula, Malay Islands.

#### HYPOLEPIDACEAE Pic. Ser.

*Hypolepis* Bernh. Schrad. Neu. Journ. Bot. 1 (2) : 34. 1805.

Type : *H. tenuifolia* (G. Forst.) Benth. Schrad. Neu Journ. Bot. 1 (2) : 34. 1805.

*H. punctata* (Thunb.) Mett. ex Kuhn, Fil Afr. 120. 1868 (*non* Bedd. 1892). *Polypodium punctatum* Thunb. Fl. Jap. 337. 1784. *Phegopteris punctata* Mett. Ann. Lugd. Bat. 1 : 222. 1864. *Dryopteris punctata* C. Chr. Ind. Fil. 287. 1905 (excl. syn. *Hypolepis punctata* Bedd.).

*Distrib.* : Throughout India in mountainous regions, Sri Lanka, Japan, Malay Peninsula.



## PTERIDIACEAE Ching

**Pteridium** Gled. ex Scop, Fl. Carn. 169. 1760. *nom. cons.*

Type : **P. aquilinum** (L.) Kuhn, v. Deck. Reis. 3 (3) : 11. 1879.

**P. aquilinum** (L.) Kuhn v. Deck. Reis. 3 (3) : 11. 1879. *Pteris aquilina* L. Sp. Pl. 2 : 1075. 1753 ; Bedd. Ferns South. India t. 44. 1863 ; Handb. Ferns. Brit. India 115. 1883.

*Distrib.* : Throughout India in mountainous regions, Sri Lanka, Malay Peninsula, throughout the world except Arctic zones and temperate South America.

**P. aquilinum** var. **wightianum** (Wall.) Trayon, Rhodora 43 : 22. 1941. *Pieris Wightiana* Wall. List. no. 2178. 1829. *P. aquilina sensu* Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 468. 1880.

*Distrib.* : Eastern Himalayas, Sri Lanka, Indo China, Malay Peninsula, Malesian Islands, Philippines, Formosa, Nepal.

**P. capense** (Thunb.) Krasser var. **densum** Tagawa, Bull. Nat. Sci. Mus. no. 27 : 5. 1949.

*Distrib.* : Eastern Himalayas.

## LINDSAEACEAE Pic. Ser.

**Lindsaea** Dryand. ex Smith. Mém. Acad. Turin 5 : 401. 1793 ; Dixit & Ghosh, Proc. Indian Acad. Sci. (Pl. Sci.) 92 : 233. f. 1 47. 1983.

Lectotype : **L. guianensis** (Aubl.) Dryand. Trans. Linn. Soc. 3 : 42. 1797.

**L. andamanica** Dixit & Ghosh, Proc. Indian Acad. Sci. (pl. Sci.) 92 : 254. f. 40, 41. 1983.

*Distrib.* : India (South Andaman Islands).

**L. beddomea** Dixit & Ghosh, Proc. Indian Acad. Sci. (Pl. Sci.) 89 (3) : 181. f. 4 7. 1980. *Lindsaea heterophylla* Bedd. Ferns South. India 70. t. 206. 1863 (*non* Dryand. 1797) ; Handb. Ferns Brit, India 77. 1883.

*Distrib.* : India (South India).

**L. bouillodii** Christ, Not. Syst. 1 : 59. 1909. *L. tenera* auct. Bedd.

Ferns South. India 7 f. 24. 1865. *L. orbiculata* var. *tenera* Bedd. Handb. Ferns Brit. India 73. 1883.

*Distrib.* : India (Tamil Nadu), Sri Lanka, Thailand, Tonkin, Malay Peninsula, Malesian Islands, Indo China.

*L. ensifolia* Sw. Schrad. Journ. Bot. 1800 (2) : 77. 1801. *Schizoloma ensifolia* (Sw.) J. Smith in Hook. Journ. Bot. 3 : 414. 1841 ; Bedd. Ferns South. India f. 25. 1865 ; Handb. Ferns Brit. India 80. t. 41, 1883.

*Distrib.* : Throughout India, Bangladesh, Burma, Sri Lanka, China, Malay Peninsula, Malesian Islands, New Guinea, Australia, Africa, New Caledonia, Hawaii.

*L. glandulifera* V. Ald. V. Ros. Bull. Jard. Bot. Btzg. 2 (1) : 9. 1911. *L. repens* (Bory.) Thw. var. *minor* (Thw.) Bedd. Ferns South. India 72. t. 214. 1865 ; Handb. Ferns Brit. India 74. 1883.

*Distrib.* : India (Assam, Sikkim), Sri Lanka, Malesia.

*L. gueriniana* (Gaud.) Desv. Prod. 312. 1827 ; *Schizoloma gueriniana* Gaud. Ann. Sci. Nat. 3 : 508. 1824.

*Distrib.* : India (Nicobar Islands), Philippines, Malesian Islands, Celebes, Moluccas, New Guinea, Solomon Islands, Tahiti.

*L. heterophylla* Dryand. Trans. Linn. Soc. 3 : 41. t. 8. f. 1. 1797. *Adiantum heterophyllum* (Dryand.) Poir. Encycl. Suppl. 1. 139. 1810. *Schizoloma heterophyllum* (Dryand.) J. Sm. in Hook. Journ. Bot. 3 : 414. 1841 ; Bedd. Ferns South. India 9. f. 25. 1863 ; Handb. Ferns Brit. India 80. 1883. *S. savantwadiensis* Almeida, Journ. Bomb. Nat. Hist. Soc. 74 : 325. f. 4. 1977. *S. indica* Almeida, Journ. Bomb. Nat. Hist. Soc. 74 : 325. f. 3. 1977.

*Distrib.* : India (South India, Maharashtra, Karnataka, Nicobar Islands), Mascareen Islands, Madagascar, Sri Lanka, Ryu Kyu Islands, China, Malay Peninsula, Malesian Islands, Philippine Islands.

*L. himalaica* Kram. Gard. Bull. Singapore 26 (1) : 43. f. 3. 1972. *L. cultrata* (Willd.) Sw. var. *minor* Hook. Sp. Fil. 1 : 204. 1846 (*pro parte* excl. Lectotype). *L. cultrata* (Willd.) Sw. var. *assamica* Hook. loc. cit. ex. char. (no material cited).

*Distrib.* : India (Assam, Meghalaya, Arunachal Pradesh).

*L. javanensis* Bl. Enum. Pl. Jav. 219. 1828. *Schizoloma javanense* (Bl.) Holtt. Rev. Fl. Malaya 2 : 349. f. 202. 1954. *Lindsaea flabellulata* Dryand. var. *gigantea* Hook. Sp. Fil. 1. 211. f. 630. 1846. *L. flabellulata* sensu Bedd. Ferns South. India 72. f. 216. 1865 (*descr. pro parte*).

*Distrib.* : India (Meghalaya, Assam), Burma, China, Japan, Malay Peninsula, Malesian Islands, Philippines.

**L. lucida** Bl. Enum. Pl. Jav. 216. 1828. *L. lobiana* Hook. Sp. Fil. 1 : 205. 1846 ; Bedd. Ferns Brit. India t. 28. 1865. *L. cultrata sensu* Bedd. Ferns South. India 7. 1865 (descr. *pro parte*, t. 23) ; Handb. Ferns Brit. India 72. 1883 (descr. *pro parte*. excl. f. 36).

*Distrib.* : India (Eastern India, Andaman Islands) Burma, Bhutan, Bangladesh, China, Japan, Thailand, Malay Peninsula, Malesian Islands, Philippines, New Guinea.

**L. malabarica** (Bedd.) Bak. ex C. Chr. Contr. U. S. Nat. Herb. 26 : 195. 1931. *Schizoloma malabaricum* Bedd. Ferns Brit. India t. 268. 1868. with descr. *S. lobata* (Poir.) Bedd. var. *malabaricum* (Bedd.) Bedd. Handb. Ferns Brit. India 79 t. 39. 1883 (err. *malabarica*).

*Distrib.* : India (South India, Madhya Pradesh).

**L. malayensis** Holtt. Gard. Bull. S. S. 5 : 69. f. 8. 1930.

*Distrib.* : India (Nicobar Islands). Malay Peninsula, Malesia.

**L. oblanceolata** v. A. v. R. Bull, Jard. Bot. Btzg. II. 23 : 15. 1916. *Lindsaea pectinata* auct. Holtt. Rev. Fl. Malaya 2 : 324. 1954 (*non* Bl. 1828).

*Distrib.* : India (Nicobar Islands), Malay Peninsula, Malesian Islands, Annam, Peninsular Thailand, Philippines, Moluccas.

**L. odorata** Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 511. 1844. *L. cultrata* (Willd.) Sw. var. *minor* Hook. Sp. Fil. 1 : 204. 1846 (*pro parte* excl. Lectotype). *L. cultrata* (Willd.) Sw. var. *pallens* Hook. Sp. Fil. 1 : 204. 1846. *L. cultrata* (Willd.) Sw. var. *attenuata* Hook. Sp. Fil. 1 : 204. 1846. *L. cultrata* auct. viz. Bedd. Ferns South. India 7. t. 23. 1864 ; Handb. Ferns. Brit. India 72 t. 36. 1883.

*Distrib.* : India (Eastern India), Burma, Bangladesh, Sri Lanka, Malaya Peninsula, Malesian Islands, New Guinea, Moluccas, Philippines.

**L. odorata** var. *darjeelingensis* Sen & Sen. Amer. Fern Journ. 71 : 14. f. 1 8. 1971.

*Disirib.* : India (Darjeeling Himalayas).

**L. orbiculata** (Lam.) Mett. ex Kuhn. Miq. Ann. Mus. Bot. Lugd. Bat. 4 : 279. 1869 ; Bedd. Handb. Ferns Brit. India 75. 1883. var. *orbiculata*. *Adiantum orbiculatum* Lam. Encycl. 1 : 41. 1783. *L. flabellulata* Dryand. Trans. Linn. Soc. 3 : 41. t. 8. f. 2. 1797 ; Bedd. Ferns South. India 72. 1865 (descr. *pro parte*, excl. t. 216).

*Distrib.* : India, Burma, China, Sri Lanka, Indo China, Japan, Thailand, Malay Peninsula, Malesian Islands, Philippines.

**L. orbiculata** (Lam.) Mett. ex Kuhn var. **commixta** (Tagawa) Kram. Fl. Mal. ser. II. 1 (3) : 207. 1971. *L. commixta* Tagawa, Acta phytotax. Geobot. 6 : 37. f. 3. H. J. 1937.

*Distrib.* : India (N. W. Himalayas), Burma, Sri Lanka, Japan, Malay Peninsula, Malesian Island, Philippines.

**L. parasitica** (Roxb. ex Griff.) Hieron. Hedw. 14 : 62. 1920. *Vittaria parasitica* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 510. 1844. *Lindsaea scandens* Hook. Sp. Fil. 1 : 205. t. 63 B. 1846 ; Bedd. Ferns Brit. India t. 298. 1868 ; Handb. Ferns Brit. India 74. t. 37. 1883.

*Distrib.* : India (Nicobar Islands), Malay Peninsula, Malesian Islands, Thailand.

**L. repens** (Bory) Thw. var. **pectinata** (Bl.) Mett. ex Kuhn, Miq. Ann. Mus. Lugd. Bat. 4 : 277. 1868. *L. pectinata* Bl. Enum. Pl. Jav. 217. 1828 (*non* Holtt. 1954). *L. repens sensu* Bedd. Ferns South. India t. 209. 1865 ; Handb. Ferns Brit. India 74. 1883.

*Distrib.* : India (Sikkim, West Bengal, Assam, Madhya Pradesh) Sri Lanka, Malay Peninsula, Malay Islands, Philippines, Thailand, Indo China.

**L. rutlandia** Dixit & Ghosh, Proc. Indian Acad. Sci. (Pl. Sci.) 92 : 244. f. 11 12. 1983.

*Distrib.* : India (South Andamans).

**L. tenera** Dryand. Trans, Linn. Soc. 3 : 42. t. 10. 1797 (*non* Kaulf. 1834, not of later authors). *Schizoloma tenerum* (Dryand.) Holtt. Rev. Fl. Malaya 2 : 348. 1954 (as to the type only).

*Distrib.* : India (Nicobar Islands).

**L. tetragona** Karam. Blumea 15 (2) : 564. 1967 ; Ghosh & Dixit, Bull. Bot. Surv. India 20 (1 4) : 170. f. 3 4. 1978.

*Distrib.* : India (Nicobar Islands). Minanda, Celebes, Moluccas, Louisiades, Soloman Islands, Fiji, Tahiti.

**L. venusta** Kaulf. ex Kuhn, Linnaea 36 : 79. 1869. *Schizoloma recurvatum* auct. (*non* Wall. ex Hook.) Bedd. Ferns South. India 9. t. 27. 1864. *Schizoloma lobata sensu* Bedd. Handb. Ferns. Brit. India 79. 1883 (*pro parte*).

*Distrib.* : India (South India), Sri Lanka.

**Sphenomeris** Maxon, Journ. Wash. Acad. Sc. 3 : 144. 1913.

Type : **S. clavata** (L.) Maxon, Journ. Wash. Acad. Sc. 3 : 144. 1913.

**S. chinensis** (L.) Maxon, Journ. Wash. Acad. Sc. 3 : 144. 1913. *Trichomanes chinensis* L. Sp. Pl. 2 : 1099. 1753. *Davallia chinensis* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 449. 1880. *D. tenuifolia* Sw. Schrad. Journ. Bot. 1800 (2) : 88. 1801 ; Bedd. Ferns South. India t. 16. 1863. *Stenoloma chinensis* (L.) Bedd. Handb. Ferns Brit. India 70. t. 34. 1883. *Trichomanes malayanum* Roxb. ex. Griff. Calc. Journ. Nat. Hist. 4 : 519. 1844.

*Distrib.* : Throughout India from the plains to hilly regions, Sri Lanka, Malay Peninsula, China, Japan, Polynesia, East African Islands.

**S. chinensis** var. **divaricata** (Christ) Kramer, Blumea 15 : 672. 1968. *Odontosoria chinensis* var. *divaricata* Christ, Journ. de. Bot. ser. II. 2 : 23. 1909.

*Distrib.* : India (Assam, Sikkim), China to Malesia.

**Tapeinidium** (Presl) C. Chr. Ind. Fil. 631. 1906. *Tapeinidium* Presl, Epim. Bot. 96. 1849. as sec. of *Microlepia*.

Type : **T. pinnatum** (Cav.) C. Chr. Ind. Fil. 631. 1906.

**T. pinnatum** (Cav.) C. Chr. Ind. Fil. 631. 1906. *Davallia pinnata* Cav. Descr. 277. 1802. (*non* Mett. ex Kuhn 1869). *Microlepia pinnata* (Cav.) J. Sm. ex Hook. Journ. Bot. 3 : 416. 1841 ; Bedd. Ferns South. India t. 14. 1863 ; Handb. Ferns Brit. India 64. 1883. *Davallia serrata* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 514. 1844 (*non* Willd. 1810).

*Distrib.* : South India, Eastern Himalayas, Thailand, Ryu Kyu Island, Taiwan, Malesia, Singapore, Lingga Island, Banka, Sumatra, Java. Borneo, Celebes, Philippines.

#### THELYPTERIDACEAE (Presl) Pic. Ser.

**Ampelopteris** Kunze, Bot. Zeit. 6 : 114. 1848.

Type : **A. prolifera** (Retz.) Copel. Gen. Fil. 144. 1947.

**Ampelopteris prolifera** (Retz.) Copel. Gen. Fil. 144. 1947. *Hemionitis prolifera* Retz. Obs. Bot. 6 : 31. 1791. *Goniopteris prolifera* (Retz.)

Presl. Tent. Pterid. 183. 1836 ; Bedd. Ferns South. India t. 172. 1864; Handb. Ferns Brit. India 296. t. 153. 1883.

*Distrib.* : Throughout India, Nepal, Bhutan, Burma, North Australia, South Africa and its Islands, Philippines, New Caledonia, China.

**Amphineuron** Holtt. Blumea 19 : 45. 1971 ; Blumea 23 : 205. 1977.

Type : **A. opulentum** (Kaulf.) Holtt. Blumea 19 : 45. f. 19. 19a. 1971.

**A. immersum** (Bl.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 203. 1974. *Aspidium immersum* Bl. Enum Pl. Jav. 156. 1828. *Lastrea immersa* (Bl.) Moore, Ind. Fil. LXXXIX. 1857 Bedd. Ferns Brit. India t. 252. 1867 ; Handb. Ferns Brit. India 234. t. 1883.

*Distrib.* : India (Assam), Hainan, Thailand, throughout Malesia, Queensland, New Hebrides, New Caledonia.

**A. opulentum** (Kaulf.) Holtt. Blumea 19 : 45. 1971. *Aspidium opulentum* Kaulf. Enum. Fl. 238. 1824. *Nephrodium extensum* (Bl.) Moore, Ind. Fil. 91. 1858 ; Bedd. Handb. Ferns Brit. India 269. 1883.

*Distrib.* : S. India, Sri Lanka, East Africa, Seychelles, Burma, Thailand, Malesia, N. Queensland, Islands of the Pacific to Tahiti, Trop. America.

**A. terminans** (Hook.) Holtt. Amer. Fern Journ. 63 : 82. 1973. *Nephrodium terminans* Hook. Sp. Fil. 4 : 73. 1862. excl. syn. *Nephrodium pteroides sensu* Bedd. Handb. Ferns Brit. India. 269. 1883.

*Distrib.* : South India, Burma to Hainan and Macao, throughout Malesia, Queensland, Central Africa, Fernando Poo.

**Christella** Lévéillie, Fl. Kouy Tscheon 472. 1915.

Lectotype : **C. parasitica** (L.) Lé v. Fl. Kouy Tscheon 472. 1915.

**C. appendiculata** (Presl.) Holtt. Kew Bull. 31 (2) : 311. 1977. *Nephrodium appendiculatum* Presl, Epim Bot. 47. 1851. *N. extensum* var. *microsorium* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 530. 1880. *N. microsorium* (Clarke) Bedd. Handb. Ferns Brit. India 270. 1883 (*non* Hook. 1862). *N. molliusculum* Bedd. Handb. Ferns Brit. India Suppl. 68. 1892, *nom nov. superfl.* *N. extensum* var. *late-repens* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 530. 1880.

*Distrib.* : India (Himalayan foot hills from 78° East, eastwards to upper Assam), China.

**C. arida** (D. Don) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 206. 1974. *Aspidium aridus* D. Don, Prod. Fl. Nepal. 4. 1825.

*Nephrodium aridus* (D. Don) J. Sm. Hook. Journ. Bot. 4 : 188. 1841 ; Bedd. Ferns Brit. India t. 297. 1868 ; Handb. Ferns Brit. India 272. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 531. 1880.

*Distrib.* : North West India to S. China, Thailand, Vietnam, throughout Malesia, N. Queensland, New Hebrides, New Caledonia, Fiji, Samoa.

*C. clarkei* (Bedd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 203. 1974, *Pleocnemia clarkei* Bedd. Ferns Brit. India Suppl. 15. t. 368. 1876 ; Handb. Ferns Brit India 297. t. 116. 1883. *Nephrodium artinexum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 536. 1880.

*Distrib.* : India (Sikkim).

*C. cylindrothrix* (Rosenst.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 208. 1974. *Dryopteris cylindrothrix* Rosenst. in Fedde. Repert. 12 : 246. 1913. *Nephrodium parasiticum* var. *aureum* (Clarke) Bedd. Handb. Ferns Brit. India 279. 1883. *N. procurrens sensu* Bedd. Handb. Ferns Brit. India Suppl. 67. 1892 (*pro parte*).

*Distrib.* : India (Sikkim, Assam), Bhutan, Burma, Thailand.

*C. crinipes* (Hook.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 208. 1974. *Nephrodium crinipes* Hook. Sp. Fil. 4 : 71. 1862 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 533. 1880 ; Bedd. Ferns Brit. India t. 263. 1868 ; Handb. Ferns Brit. India 279. 1883.

*Distrib.* : India (Meghalaya, Darjeeling & Sikkim Himalayas), Burma, China, North Thailand, Hainan.

*C. dentata* (Forssk.) Brownsey & Jermy, Brit. Fern Gaz. 10 : 338. 1973. *Polypodium dentatum* Forssk. Fl. Aegypt. arab. 185. 1773.

*Distrib.* : Throughout the tropics and subtropics of the old world.

*C. evoluta* (Bedd.) Holtt. in Nayar & Kaur Comp. to Bedd. Handb. 208. 1974. *Nephrodium amboiense* var. *evolutum* Clarke & Bak. in Journ. Linn. Soc. Bot. 24 : 417. 1888. *N. evolutum* Bedd. Handb. Ferns Brit. India Suppl. 76. 1892.

*Distrib.* : Eastern India, North Thailand.

*C. gustavii* (Bedd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 208. 1974. *Nephrodium gustavii* Bedd. in Journ. Bot. 31 : 227. 1893. *N. evolutum* var. *gustavii* Bedd. Handb. Ferns Brit. India Suppl. 77. 1892.

*Distrib.* : India (Assam), N. Thailand.

*C. harveyi* (Mett.) Holtt. Kew Bull. 31 : 306. 1976. *Aspidium harveyi* Mett. in Kuhn, Linnæa 36 : 115. 1869.

*Distrib.* : India (cultivated in Indian Botanic Garden, Howrah) and elsewhere in the tropics, polynesia.

**C. hispidula** (Decne) Holtt. Kew Bull. 31 : 312. 1976. *Aspidium hispidulum* Decne, Nouv. Ann. Mus. Hist. Nat. Paris 3 : 346. 1834. *Thelypteris hilsenbergii* (Presl) Panigr. Phytologia 31 : 369. 1975. *Christella quadrangularis* (Fée) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 207. 1974.

*Distrib.* : India (South India, Meghalaya) Trop. America, Africa, Sri Lanka, Malaya, Malesia.

**C. hokouensis** (Ching) Holtt. Kew Bull. 31 (2) : 327. 1977. *Cyclosorus hokouensis* Ching, Bull. Fan Mem. Inst. Biol. ser. 2. 1 : 289. 1949.

*Distrib.* : India (Assam), China.

**C. kumaunica** Holtt. Kew Bull. 31 (2) : 318. 1977.

*Distrib.* : India (Kumaun).

**C. leboefii** (Bak.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 206. 1974. *Polypodium leboefii* Bak. in Ann. Bot. 5 : 461. 1891. *Thelypteris leboefii* (Bak.) Panigr. Notes Roy. Bot. Gard. Edinb. 33 : 498. 1975. *Nephrodium biauratum* Bedd. Handb. Ferns Brit. India Suppl. 68. 1892.

*Distrib.* : India (Assam), Burma, Cambodia, Thailand.

**C. malabariensis** (Fée) Holtt. Kew Bull. 31 (2) : 317. 1977. *Nephrodium malabariense* Fée 10 Mém 43. 1865. *Thelypteris malabariensis* (Fée) Panigr. Notes. Roy. Bot. Gard. Edinb. 33 : 497. 1975. *Christella meeboldii* (Rosenst.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 208. 1974.

*Distrib.* : North East to Southern India. China, Sri Lanka.

**C. namburensis** (Bedd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 206. 1974. *Nephrodium namburensis* Bedd. Handb. Ferns Brit. India Suppl. 69. 1892.

*Distrib.* : India (Assam), Thailand.

**C. papilio** (Hope.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 208. 1974. *Nephrodium papilio* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 625. t. 12. 1899. *Nephrodium molle* var. *major* Bedd. Handb. Ferns Brit. India Suppl. 76. 1892 (*pro parte*).



*Distrib.* : India (North - East to South India), Sri Lanka, Thailand, Malaysia to Northern Malaya.

**C. papyracea** (Bedd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 206. 1974. *Nephrodium papyraceum* Bedd. Handb. Ferns Brit. India Suppl. 69. 1892.

*Distrib.* : India (Assam), Nepal, Burma.

**C. parasitica** (L.) Lév. Fl. Kouy tescheon 475. 1915. *Polypodium parasiticum* L. Sp. Pl. 2 : 1090. 1753. *Nephrodium procurrens* (Mett.) Bak. Sp. Fil. 290. 1867 ; Bedd. Handb. Ferns Brit. India Suppl. 67. 1892 (*pro parte*). *N. didymosorum* Parish ex Bedd. Ferns Brit. India t. 200. 1866. *N. molle* var. *didymosorum* Bedd. Handb. Ferns Brit. India 279. 1883. *Cyclosorus didymosorus* (Parish ex Bedd.) Nayar & Kaur, Comp. to Bedd. Handb. 208. 1974. *Nephrodium tectum* Bedd. Handb. Ferns Brit. India Suppl. 79. 1892 excl. King 1857.

*Distrib.* : North East and Southern India. Wetter parts of tropics and subtropics of Asia, Malesia, Queensland, Pacific to Tahiti and Hawaii, E. Africa, St. Helena.

**C. semisagittata** (Roxb. ex Griff.) Holtt. Kew Bull. 31 (2) : 334. 1977. *Polypodium semisagittatum* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 491. 1844.

*Distrib.* : India (Bengal, Assam), Burma, Bangladesh.

**C. siamensis** (Tagawa & K. Iwats.) Holtt. Kew Bull. 31 (2) : 332. 1977. *Thelypteris siamensis* Tagawa & K. Iwats. Acta Phytotax. Geobot. 22. 101. f. 5. 1967.

*Distrib.* : North East India, South China, Thailand.

**C. subelata** (Bak.) Holtt. Kew Bull. 31 (2) : 331. 1977. *Nephrodium subelatum* Bak. Bull. Misc. Inf. Kew. 1906. 11. 1906. *N. multilineatum* var. *assamicum* Bedd. Journ. Bot. 31 : 228. 1893. *Christella assamica* (Bedd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 210. 1974.

*Distrib.* : Eastern India, China, North Thailand.

**C. subpubescens** (Bl.) Holtt. Webbia 30 : 193. 1976 ; Kew Bull. 31 : 323. 1977. *Aspidium subpubescens* Bl. Fnum. Pl. Jav. 149. 1828. *Nephrodium molle* var. *major* Bedd. Handb. Ferns Brit. India Suppl. 76. 1892. *Thelypteris blumei* Panigr. Pytologia 30 : 409. 1975. *Nephrodium molle* var. *amboinense* Bedd. Handb. Ferns Brit. India 278. 1883 (*pro parte*).

*Distrib.* : North East India to S. W. China, Burma. Thailand, Vietnam, Malesia, N. Queensland, New Hebrides, Fiji, Samoa.

**C. zeylanica** (Fée) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 201. 1974. *Nephrodium zeylanicum* Fée 10e Mém. 42. 1865. *N. srilanke-nsis* Panigr. Notes Roy. Bot. Gard. Edinb. 33 : 429. 1975. *N. extensum* var. *minor* Bedd. Ferns Brit. India t. 201. 1866. *N. molle sensu* Bedd. Handb. Ferns Brit. India 277. 1883 (*pro parte*).

*Distrib.* : India (Nicobar Islands), Sri Lanka.

**Coryphopteris** Holtt. Blumea 19 : 33. 1971.

Type : **C. viscosa** (Bak.) Holtt. Blumea 18 : 33. 1971.

**C. didymochlaenoides** (Clarke) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 203. 1974. *Nephrodium gracilescens* var. *didymochlaenoides* Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 514. 1880. *Lastrea hirsutipes* var. *didymochlaenoides* (Clarke) Bedd. Handb. Ferns Brit. India Suppl. 52. 1892.

*Distrib.* : India (Meghalaya).

**C. hirsutipes** (Clarke) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 203. 1974. *Nephrodium gracilescens* var. *hirsutipes* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 514. t. 67. f. 1. 1880. *Lastrea gracilescens sensu* Bedd. Handb. Ferns Brit. India 234. 1883 (*pro parte*). *Lastrea hirsutipes* (Clarke) Bedd. Handb. Ferns Brit. India Suppl. 52. 1892. (excl. var. *didymochlaenoides*).

*Distrib.* : N. E. India, China, Japan. Taiwan. Ryukyu Islands, Thailand, Malaya, Sumatra.

**Cyclogramma** Tagawa, Acta Phytotax. Geobot. 7 : 52. 1938.

Type **C. simulans** (Ching) Tagawa, Acta Phytotax. Geobot. 7 : 52. 1938.

**C. auriculata** (J. Sm.) Ching, Acta Phytotax. Sinica. 317. 1963. *Phegopteris auriculata* J. Sm. Hist. Fil. 233. 1875 ; Bedd. Handb. Ferns Brit. India 290. f. 149. 1883. excl. syn. *Polypodium auriculatum* Wall. ex Hook. Sp. Fil. 4: 237. 1862, *non* L. *nec*. Radd., *nec* Presl ; Bedd. Ferns Brit. India t. 203. 1866 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 543. 1880.

*Distrib.* : India (North West Himalayas, Eastern Himalayas), Bhutan, Java.

**C. squamaestipes** (Clarke) Tagawa, Acta Phytotax. Geobot. 7 : 52. 1938. *Polypodium appendiculatum* var. *squamaestipes* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 543. t. 79. f. 2. 1880.

*Distrib.* : India (Eastern Himalayas).

**Cyclosorus** Link, Hort. Berol. 2 : 128. 1833 ; Holtt. Blumea 19 : (1) : 27. 1971.

Type : **C. goggilodes** (Schkuhr) Link, Hort. Berol. 2 : 128. 1833.

**C. goggilodes** (Schkuhr) Link, Hort. Berol. 2 : 128. 1833. *Aspidium goggilodus* Schkuhr, Kr. Gew. 1 : 193. t. 33 C. 1809.

*Distrib.* : Pantropic.

**C. interruptus** (Willd.) H. Ito, Bot. Mag. Tokyo 51 : 714. 1937. (nomen tantum). *Pteris interrupta* Willd. Phytographia 13. t. 10. f. 1. 1794. *Nephrodium propinquum* R. Br. Prod. Fl. Nov. Holl. 148. 1810 ; Bedd. Ferns South. India t. 89. 1863. *Nephrodium pteroides* Hook. & Bak. Syn. Fil. 289. 1867 ; Bedd. Handb. Ferns Brit. India 269. 1883. *Nephrodium unitum sensu* Bedd. Handb. Ferns Brit. India 268. 1883.

*Distrib.* : Tropics and subtropics of the world.

More thorough studies are required to understand the genus properly.

**Dictyocline** Moore, Gard. Chron. 854. 1855.

Lectotype ; **D. griffithii** Moore, Gard. Chron. 854. 1855.

**D. griffithii** Moore, Gard. Chron. 854. 1855 ; Bedd. Ferns Brit. India t. 155. 1867. *Hemionitis griffithii* Hook. et Thomson in Hook. Sp. Fil. 5 : 193. 1864 ; Bedd. Handb. Ferns Brit. India 415. t. 246. 1883.

*Distrib.* : India (Meghalaya, Eastern Himalayas), Tonkin, Formosa, China, Japan, Malaya.

**Glaphyopteridopsis** Ching, Acta phytotax. Sin. 8 : 320. 1963.

Types ; **G. erubescens** (Wall. ex Hook.) Ching, Acta Phytotax. Sin. 8 : 320. 1963.

**G. erubescens** (Wall. ex Hook.) Ching, Acta Phytotax. Sin 8 : 320. 1963. *Polypodium erubescens* Wall. ex Hook. Sp. Fil. 4 : 236. 1862. *Phegopteris erubescens* (Wall. ex Hook.) J. Sm. Hist. Fil. 333. 1875 ; Bedd. Ferns Brit. India t. 213. 1867 ; Handb. Ferns Brit. India 290. 1883.

*Distrib.* : India (Throughout Himalayan region), China, Formosa, Malay Peninsula, Malay Islands.

**Macrothelypteris** (H. Ito) Ching, Acta Phytotax. Sin. 8 : 308. 1963.

Type : **M. oligophlebia** (Bak.) Ching, Acta Phytotax. Sin. 8 : 308. 1963.

**M. ornata** (Wall. ex Bedd.) Ching, Acta Phytotax. Sin. 8 : 309. 1963. *Polypodium ornatum* Wall. ex Bedd. Ferns Brit. India t. 171. 1864 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 545. 1880. *Phegopteris ornata* J. Sm. Hist. Fil. 233. 1875 ; Bedd. Handb. Ferns Brit. India 294. 1883.

*Distrib.* : N. E. India, Burma.

**M. torresiana** (Gaud.) Ching, Acta Phytotax. Sin. 8 : 310. 1963. *Polystichum torresianum* Gaud. in Freyc. Voy. Bot. 333. 1827. *Nephrodium tenericaule* Hook. Sp. Fil. 4 : 142. 1862, (excl. t. 269) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 528. 1880. *Lastrea tenericaulis* Moore, Ind. Fil. 99. 1858 ; Bedd. Handb. Ferns Brit. India 266. 1883. *Lastrea setigera* Bedd. Ferns Brit. India Correct. II. 1870. (non Moore 1858.)

*Distrib.* : South India and Himalayas, Mascareen Islands, warmer parts of mainland of Asia and Japan, Malesia, N. E. Australia, Polynesia, Hawaii, Malaya.

**Metathelypteris** (Bl.) Ching, Acta Phytotax. Sin. 8 : 305. 1963.

Type : **M. gracilescens** (Bl.) Ching, Acta Phytotax. Sin. 8 : 305. 1963.

**M. decipiens** (Clarke) Ching, Acta Phytotax. Sin. 8 : 306. 1963. *Nephrodium gracilescens* var. *decipiens* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 541. t. 65. f. 2. 1880 ; Bedd. Handb. Ferns Brit. India 234. 1883. *Lastrea gracilescens* var. *decipiens* (Clarke) Bedd. Handb. Ferns Brit. India Suppl. 51. 1892.

*Distrib.* : India (Eastern Himalays).

**M. flaccida** (Bl.) Ching, Acta Phytotax. Sin. 8 : 306. 1963. *Aspidium flaccidum* Bl. Enum. Pl. Jav. 2 : 182. 1891. *Lastrea flaccida* (Bl.) Moore, Ind. Fil. 92. 1858 ; Bedd. Ferns South. India t. 250. 1865 ; Handb. Ferns Brit. India 244. 1883.

*Distrib.* : India (South India and Himalays), Sri Lanka, Java, China, Philippines.

**M. gracilescens** (Bl.) Ching, Acta Phytotax. Sin. 8 : 305. 1963. *Aspidium gracilescens* Bl. Enum. Pl. Jav. 155. 1828. *Lastrea gracilescens* (Bl.) Moore, Ind. Fil. 93. 1858 ; Bedd. Handb. Ferns Brit. India 234. 1883 (*pro parte*) ; Suppl. 51. 1892 (*pro parte*).

*Distrib.* : India (Himalays), Japan, Taiwan, Malesia, Malaya, Sumantra, W. Java, N. Borneo, Luzon, Minadano, New Guinea.

**M. uraiensis** (Ros.) Ching, Acta Phytotax. Sin. 8 : 306. 1963. *Dryopteris uraiensis* Ros. Hedw. 56 : 341. 1915. *Thelypteris uraiensis* (Ros.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 6 : 336. 1936.

*Distrib.* : Eastern India, China, Japan, Taiwan.

**Oreopteris** Holub, Folia Geobot. Phytotax. 4 : 49. 1969 ; Holtt. Kew Bull. 36(2) : 225. 1981.

Type : **O. limbosperma** (All.) Holub, Folia Geobot. Phytotax. 4 : 49. 1969.

**O. elwesii** (Bak.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 204. 1974. *Nephrodium elwesii* Bak. in Hook. et Bak. Syn. Fil. ed. 2 : 497. 1874. *Lastrea elwesii* (Bak.) Bedd. Ferns Brit. India Suppl. t. 376. 1876 ; Handb. Ferns Brit. India 287. 1883 ; Suppl. Handb. 54. 1892.

*Distrib.* : India (Sikkim).

**Parathelypteris** (H. Ito) Ching, Acta. Phytotax. Sin. 8 : 300. 1963.

Type : **P. glanduligera** (Kze.) Anal. 44. 1857.

**P. beddomei** (Bak.) Ching, Acta Phytotax. Sin. 8 : 302. 1963. var. **beddomei** *Nephrodium beddomei* Bak. Syn. Fil. 267. 1867. *Lastrea gracilescens sensu* Bedd. Ferns South. India t. 110. 1863. *Lastrea beddomei* (Bak.) Bedd. Ferns Brit. India Corr. 1870 ; Handb. Ferns Brit. India 239. 1883.

*Distrib.* : South India, Sri Lanka, Taiwan, Formosa, Japan, Malesia, Philippines.

**P. glanduligera** (Kunze.) Ching, Acta Phytotax. Sin. 8 : 303. 1963. *Aspidium glanduligerum* Kunze, Anal. Pterid. 44. 1837. *Lastrea gracilescens* var. *glanduligera* Bedd. Handb. Ferns Brit. India Suppl. 51. 1892.

*Distrib.* : India (Eastern India and Eastern Himalays), Nepal eastwards to S. China, Korea, Formosa, Japan and South to Thailand and N. Malesia.

**Phegopteris** (Presl.) Fée, Gen. Fil. 242. 1850-52, emend Ching, Acta Phytotax. Sin. 8 : 312. 1963 ; Holtt. Blumea 17 : 9. 1969.

Type : **P. connectilis** (Michx.) Watt. Canad. Nat. 29. 1870.

**P. connectilis** (Michx.) Watt. Canad. Nat. 29. 1870. *Polypodium connectile* Michx. Fl. Bor. Amer. 2 : 271. 1803. *Phegopteris vulgaris* Mett. Fil. Hort. Lips. 83. 1856 *nom. illeg.* ; J. Sm. Ferns. Brit. & For. 171. 1866 ; Bedd. Handb. Ferns Brit. India 290. 1883.

*Distrib.* : India (Himalayas), North temperate & Boreal regions.

**Pneumatopteris** Nakai, Bot. Mag. Tokyo 47 : 179. 1933 ; Holtt. Blumea 21 : 293. 1973.

Type : **P. callosa** (Bl.) Nakai, Bot. Mag. Tokyo 47 : 179. 1933.

**P. truncata** (Poir.) Holtt. Blumea 21 (2) : 314. 1973. *Polypodium truncatum* Poir, Encycl. Meth. 5 : 534. 1804.

*Distrib.* : South India, N.E. India, Sri Lanka, China, Malesia, Philippines.

**P. truncata** var. **loyalli** Holtt. *Blumea* 21 (2) : 314. 1973.

*Distrib.* : India (Darjeeling).

**Pronephrium** Presl, *Epim. Bot.* 258. 1849 ; Holtt. *Blumea* 20 : 105. 1972.

Lectotype : **P. lineatum** (Bl.) presl, *Epim. Bot.* 259. 1849.

**P. articulatum** (Houlst. & Moore) Holtt. *Blumea* 21 (1) : 116. 1972. *Nephrodium articulatum* Houlst. & Moore, *Gard. Mag. Bot.* 293. 1851. *N. glandulosum* var. *late-strigosum* Clarke, *Trans. Lin. Soc. II. Bot.* 1 : 532. t. 74, f 2. 1880.

*Distrib.* : India, Bangladesh, Sri Lanka, Burma, N. Thailand, China.

**P. lakhimpurensis** (Rosenst.) Holtt. *Blumea* 20 (1) : 110. 1972. *Dryopteris lakhimpurensis* Rosenst. *Meded. Rijksherb.* 31 : 7. 1917. *Meniscium cuspidatum* var. *longifrons* Clarke, *Trans. Linn. Soc. Lond. II. Bot.* 1 : 572. 1880.

*Distrib.* : India (Himalayas), China, Tonkin, Thailand.

**P. nudatum** (Roxb. ex Griff.) Holtt. *Blumea* 21 (1) : 111. 1972. *Polypodium nudatum* Roxb. ex Griff. *Calc. Journ. Nat. Hist.* 4 : 491. 1844. *Nephrodium moulmeinense* Bedd. *Ferns Brit. India Suppl.* 18. 1876.

*Distrib.* : India (Himalayas), Burma, Thailand, Tonkin, China.

**P. parishii** (Bedd.) Holtt. *Blumea* 20 (1) : 123. 1972. *Meniscium triphyllum* var. *parishii* Bedd. *Ferns Brit. India* t. 184. 1866.

*Distrib.* : India (Meghalaya, Assam, Andaman & Nicobar Islands), Sri Lanka, Malaya, Tonkin.

**P. penangianum** (Hook.) Holtt. *Blumea* 20 (1) : 110. 1972. *Polypodium penangiannum* Hook. *Sp. Fil.* 5 : 13. 1863. *Nephrodium costatum* Bedd. *Ferns Brit. India* t. 220. 1867.

*Distrib.* : North India from Kashmir eastwards, China.

**P. stenopodum** Chandra, *Kew Bull Bull.* 26 : 81. 1971.

*Distrib.* : India (Assam).

**P. thwaitesii** (Hook.) Holtt. *Blumea* 20 (1) : 122. 1972. *Meniscium thwaitesii* Hook. *Fil. Exot.* t. 83. 1859.

*Distrib.* : South India, Sri Lanka.

**P. triphyllum** (Sw.) Holtt. *Blumea* 20 (1) : 122. 1972. *Meniscium triphyllum* Sw. *Schrad. Journ. Bot.* 1800. (2) : 16. 1801.

*Distrib.* : India, Sri Lanka, Burma, Thailand, China, Japan, Malesia, Queensland.

**Pseudocyclosorus** Ching, *Acta Phytotax. Sin.* 8 : 324. 1963 ; Holtt. & Grimes, *Kew Bull.* 34 : 499. 1979.

Type : *P. tylodes* (Kunze) Ching, Acta Phytotax. Sin. 8 : 322. 1963.

*P. canus* (Bak.) Holtt. & Grimes, Kew Bull. 34 (3) : 509. 1979. *Nephrodium canum* Bak. Syn. Fil. 267. 1867 ; Clarke, Trans Linn Soc. Lond. II Bot. 1 : 515. 1880. *Lastrea cana* Bedd. Ferns Brit. India t. 307. 1869 ; *sensu* Bedd. Handb. Ferns Brit. India 238. 1883 ; excl. Bedd. Ferns Brit. India Suppl. t. 370 1876 ; and *Aspidium eburneum* wall. List no. 389. 1828. *Nephrodium repens* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 535. t. 8. 1899.

*Distrib.* : India (Foot hills of Himalayas from Chamba Punjab eastwards to sikkim, Meghalaya).

*P. esquirolii* (C. Chr.) Ching, Acta. Phytotax. Sin. 8 : 322. 1963. *Dryopteris esquirolii* C. Chr. Bull. Acad. Géogr. Bot. 144. 1907. *Nephrodium canum* Bak. in Hook. Syn. Fil. 267. 1867 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 515. 1880 (*pro parte*).

*Distrib.* : India (Sikkim), China, Vietnam, Taiwan, Japan.

*P. falciloba* (Hook.) Ching, Acta Phytotax. Sin. 8 : 324. 1963. *Lastrea falciloba* Hook. Journ. Bot. Kew Misc. 9 : 337. 1857 ; Bedd. Ferns South. India t. 105. 1863. *Lastrea calcarata* var. *falciloba* Bedd. Handb. Ferns Brit. India 235. 1880 (*pro parte*). *Nephrodium falcilobum* Hook. Sp. Fil. 4 : 108. 1862 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 515. 1880.

*Distrib.* : India (Meghalaya, Sikkim), China, Annam, Tonkin, Japan. Burma.

*P. gamblei* Holtt. & Grimes, Kew Bull. 34 : 511. 1979.

*Distrib.* : South India.

*P. griseus* (Bak.) Holtt. & Grimes, Kew Bull. 34 (3) : 513. 1979. *Nephrodium griseum* Bak. Syn. Fil. 271. 1867. *Lastrea grisea* (Bak.) Bedd. Ferns Brit. India t. 335. 1870 ; Handb. Ferns Brit. India 241. 1883.

*Distrib.* : South India (Cochin).

*P. ochthodes* (Kze.) Holtt. in Nayar & Kaur. Comp. to Bedd. Handb. 204. 1974. *Aspidium ochthodes* Kunze, Linnaea 24 : 282. 1851 ; Bedd. Ferns South India t. 106. 1863. *Lastrea ochthodes* Moore, Ind. Fil 98. 1858 ; Bedd. Ferns South. India t. 106. 1863 ; Handb. 240. 1883 (*pro parte*). *Lastrea grisea* Bedd. Ferns Brit. India t. 335. 1870 ; Handb. Ferns Brit. India 241. 1883.

*Distrib.* : India Sri Lanka, China, Tonkin, Malaya, Peninsula.

*P. ornatipes* Holtt. et Grimes, Kew Bull. 34 : 505. 1979.

*Distrib.* : India (Eastern Himalayas), Nepal.

*P. tylodes* (Kunze) Ching, Acta Phytotax. Sin. 8 : 324. 1963. *Aspidium tylodes* Kunze, Linnaea 24 : 244. 283. 1851. *Lastrea tylodes* (Kunze) Moore, Ind. Fil. 107. 1858 ; Bedd. Ferns South India t. 107. 1863.

*Nephrodium ochthodes* var. *tylodes* Bedd. Handb. Ferns Brit. India 240. 1883. *N. tylodes* (Kunze) Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 724. 1903.

*Distrib.* : India (Himalayas except North West part), Sri Lanka, Burma, China, Hong-Kong, Malesia, Philippines.

*Pseudophegopteris* Ching, Acta Phytotax. Sin. 8 : 313. 1963.

Type : *P. pyrrhorhachis* (Kunze) Ching, Acta Phytotax. Sin. 8 : 315. 1963.

*P. aurita* (Hook.) Ching, Acta Phytotax. Sin. 8 : 314. 1963. *Gymnogramme aurita* Hook. Icon. Pl. t. 974, 989. 1854 ; Bedd. Ferns Brit. India Suppl. 24. 1876 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 568. 1880. *Grammitis aurita* Moore, Gard. Chron. 389. 1856 ; Bedd. Ferns Brit. India t. 152. 1866. *Leptogramme aurita* Bedd. Handb. Ferns Brit. India 377. 1883.

*Distrib.* : North-East India, Burma, China, Tonkin, Malesia, New Guinea.

*P. levingei* (Clarke) Ching, Acta Phytotax. Sin. 8 : 314. 1963. *Gymnogramme aurita* var. *levingei* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 568. 1880. *Leptogramme aurita* var. *levingei* Bedd. Handb. Ferns Brit. India 377. 1883. *Gymnogramme levingei* Bak. Ann. Bot. 5 : 483. 1891 ; Hope, Journ. Bomb. Nat. Hist. Soc. 15 : 99. t. 35. 1903. *Leptogramma levingei* Bedd. Handb. Ferns Brit. India Suppl. 99. 1892.

*Distrib.* : Kashmir to W. China.

*P. pyrrhorhachis* (Kunze) Ching, Acta Phytotax. Sin. 8 : 315. 1963. *Polypodium pyrrhorhachis* Kunze, Linnaea 24 : 257. 1851. *Polypodium distans* D. Don. Prod. Fl. Nepal. 2. 1825. *nom. illeg. non* Kaulf. 1824 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 544. 1880 (*pro parte*). *Phegopteris distans* (D. Don.) Mett. Frangatt. 4 : 16. 1858 ; Bedd. Handb. Ferns Brit. India 292. 1883. *Lastrea microstegia* Bedd. Ferns Brit. India t. 39. 1865. *Polypodium paludosum sensu* Bedd. Ferns South. India t. 168. 1863 (*non* Bl.). *P. distans* var. *adnatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 544. 1880. *P. late-repens* Trotter & Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 628. 1899. *Thelypteris paludosa* (Bl.) Iwats. Acta Phytotax. Geobot. 19 : 11. 1961.

*Distrib.* : India, Sri Lanka, China, Tonkin.

*P. pyrrhorhachis* var. *glabrata* (Clarke) Holtt. Blumea 17 (1) : 24. 1969. *Polypodium distans* var. *glabratum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 544. 1880.

*Distrib.* : India (Sikkim), China.

*P. rectangluaris* (Zoll.) Holtt. Blumea 27 (1) : 18. 1969. *Polypodium rectangulare* Zoll. Syst. Verz. 37, 48. 1854. *P. distans* var. *minor* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 545. t. 79. f. 1. 1880.



*Distrib.* : North-East India, Malesia.

**Sphaerostephanos** J. Sm. in Hook. Gen. Fil. t. 24. 1836.

Type : **S. asplenoides** J. Sm. in Hook. Gen. Fil. t. 14. 1839.

**S. arbuscula** (Willd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 207. 1974. *Aspidium arbuscula* Willd. in Linn. Sp. Pl. 5 : 233. 1810.

**S. kurzii** Holtt. Kew Bull. 34 : 231. 1971.

*Distrib.* : South India, Sri Lanka, Mascareen Islands.

**S. penniger** (Hook.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 207. 1976. *Nephrodium pennigerum* Hook. Sp. Fil. 4 : 82. 1862 ; Bedd. Handb. Ferns Brit. India Suppl. 73. 1892. *N. peningerum* var. *multilineatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 532. 1880. *N. multilineatum sensu* Bedd. Handb. Ferns Brit. India Suppl. 80. 1892.

*Distrib.* : Eastern India, Bangladesh, Sri Lanka.

**S. unitus** (L.) Holtt. Nayar & Kaur Comp. to Bedd. Handb. 206. 1974. var. **unitus**. *Polypodium unitum* L. Syst. Nat. ed. X 2 : 1326. 1759. *Nephrodium cucculatum* Bak. Syn. Fil. 50. 1874 ; Bedd. Handb. Ferns Brit. India 270. 1883.

*Distrib.* : Throughout India in mountainous regions, Burma, Sri Lanka, Thailand, Malesia, Malaya, Queensland.

**Stegnogramma** Bl. Enum. Pl. Jav. 172. 1828.

Type : **S. aspidiodes** Bl. Enum. Pl. Jav. 172. 1828.

**S. aspidiodes** Bl. Enum Pl. Jav. 173. 1828. *Gymnogramma stenogramma* Bl. Fl. Jav. Fil. 98. t. 44. 1829.

*Distrib.* : India (Meghalaya), Malesia.

**S. asplenoides** (C. Chr.) J. Sm. ex Ching, Sinensia 7 : 94. t. 2. 1936. *Dryopteris stenogramme* var. *asplenoides* C. Chr. Ind. Fil. 294. 1905.

*Distrib.* : India (Assam, Meghalaya), China.

**S. leptogrammoides** K. Iwats. Acta Phytotax. Geobot. 19 : 119. 1963.

*Distrib.* : Eastern India, Japan.

**Thelypteris** Schmid. Icon. Pl. ed. J.C. Keller 45 t. 11, 13. 1763. *nom. cons.*

Type : **T. palustris** (Salisb.) Schott, Gen. Fil. ad. t. 10. 1834.

**T. augescens** (Link.) Munz et Johnston, Amer. Fern. Journ. 12 : 75. 1922 ; Chandra & Devi, Journ. Bomb. Nat. Hist. Soc. 73 : 244. 1972. *Aspidium augescens* Link, Fil. Sp. 103. 1841.

*Distrib.* : South India.

**T. confluens** (Thunb.) Morton, Contr. U.S. Nat. Herb. 38. 71. 1967 ; Holtt. Fl. Malesiana ser. II. (5) : 376. 1981. *Pteris confluens* Thunb. Prod. Fl. Cap. 171. 1800. *Lastrea thelypteris* var. *squamigera* Bedd. Handb. Ferns. Brit. India Suppl. 54. 1892. *Lastrea fairbankii* Bedd. Ferns Brit. India India t. 254. 1867 ; Handb. Ferns Brit. India 240. 1883.

*Distrib* : South India, Africa, Thailand, Laos, Malesia, New Zealand.

**T. decursive-pinnata** (van Hall) Ching, Bedd. Fan Mem. Inst. Biol. Bot. 6 : 275. 1936. *Polypodium decursive-pinnatum* van Hall, Nieuwe Verhdl. Nederl. Inst. 5 : 204. 1836. *Phegopteris decursive-pinnata* (van Hall) Fee, Gen. Fil. 242. 1852.

*Distrib.* : India (Kashmir), S. China, Tonkin.

**T. phegopteris** (L.) Slosson, Rybd. Fl. Rocky Mts. 1043. 1917. *Polypodium phegopteris* L. Sp. Pl. 2 : 1089. 1753.

*Distrib.* : North India, North and temperate America, Aleutian Islands, Siberia. N.W. China, Asia Minor, N. Europe.

**T. palustris** (Salisb.) Schott, Gen. Fil. ad t. 10. 1834. *Polypodium palustris* Salisb. Prod. 403. 1876. *Lastrea thelypteris sensu* Bedd. Ferns Brit. India t. 44. Handb. Ferns Brit. India 241. 1883.

*Distrib.* : South India, N. India, widely known from the temperate regions of both the hemispheres, except for South America. S. Indian plants are more scaly.

Thorough revisionary studies are required to understand the genus *Thelypteris* Schmid in India.

**Trigonospora** Holtt. Blumea 19 (1) : 29. 1971.

Type : **T. ciliata** (Benth.) Holtt. Blumea 19 (1) : 29 f. 4, 4a. 1971.

**T. calcarata** (Bl.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 203. 1974. *Aspidium calcaratum* Bl. Enum. Pl. Jav. 159. 1828. *Lastrea calcarata* Moore, Ind. Fil. 87. 1858 ; Bedd. Handb. Ferns Brit. India 235. 1883.

*Distrib.* : India, China, Australia, Malesia.

**T. ciliata** (Benth.) Holtt. Blumea 19 (1) : 29. f. 4, 4a 1971. *Aspidium ciliatum* Benth. Fl. Hong Kong 455. 1861.

*Distrib.* : South India, and Himalayas, Burma, Sri Lanka.

**T. sericea** (Scott ex Bedd.) Holtt. in Nayar & Kaur, Comp. to Bedd. Handb. 24. 1974. *Lastrea sericea* Scott ex Bedd. Ferns Brit. India t. 308. 1869. *Nephrodium ciliatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 514. 1880. *Lastrea calcarata* var. *sericea* (Scott ex Bedd.) Bedd. Handb. Ferns Brit. India 237. 1883.

*Distrib.* : South India and North India, Bangladesh, Nepal, China, Burma, Tonkin, Malay Peninsula.

## ASPLENIACEAE. Mett. ex Frank

*Asplenium* L. Sp. Pl. 2 : 1678. 1751; Bir. Journ. Indian Bot. Soc. 43 : 556. 1964 ; Sledge. Bull. Brit. Mus. (N.H.) London Bot. 3 : 233. 1965.

Lectotype : *A. marinum* L. Sp. Pl. 2 : 1081. 1753.

*A. adiantum-nigrum* L. Sp. Pl. 2 : 1081. 1753 ; Bedd. Ferns Brit. India t. 62. 1865 ; Handb. Ferns Brit. India 156. 1883.

*Distrib.* : India (N.W. Himalayas), Europe, Asia, Africa, Sandwich Islands.

*A. aethiopicum* (N.L. Burm.) Becherer, Candollea 6 : 23. f. 1. 1935. *Trichomanes aethiopicum* N.L. Burm. Fl. Ind. Fl. Cap. Prod. 28. 1768. *A. furcatum* Thunb. Prod. Pl. Cap. 172. 1800 ; Bedd. Handb. Ferns Brit. India 157. 1883. *A. laserpitiifolium sensu* Bedd. Ferns South. India 75. t. 225. 1865.

*Distrib.* : South India, Sri Lanka, Trop. America, Polynesian Islands, Cape Colony, Abyssinia, Mascareen Islands, Canaries.

*A. affine* Sw. Schrad. Journ. Bot. 1800 (2) : 56. 1801. f. *affine* Sledge, Bull. Brit. Mus. (N.H.) Bot. 3 (6) : 270. 1965.

*Distrib.* : S. India, Sri Lanka, Mascareen Islands, Java, Borneo, Islands of Jobia.

*A. affine* f. *majus* Sledge, Kew Bull. 15 : 408. 1962.

*Distrib.* : S. India.

*A. auritum* Sw. Schrad. Journ. Bot. 1800 (2) : 52. 1801 ; Bedd. Ferns South. India t. 137. 1865 ; Handb. Ferns Brit. India 149. 1883.

*Distrib.* South India, Trop. America, West Indies, Mascareen Islands.

*A. bullatum* Wall. ex Mett. Aspl. 51. 1859. *A. bulbiferum auct.* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 485. 1880 ; Bedd. Handb. Ferns Brit. India 159. 1883.

*Distrib.* : Himalayas, Malay Peninsula, Australia, New Zealand, Mexico, New Caledonia, Natal and the east African Islands.

*A. capillipes* Makino, Bot. Mag. Tokyo 17 : 77. 1903.

*Distrib.* : India (Himalayas), Japan.

*A. caudatum* Forst. Fl. Insul. Austr. Prod. 80. 1786 ; Bedd. Ferns South. India t. 140. 1865 ; Handb. Ferns Brit. India 151. 1883.

*Distrib.* S. India, Malay Peninsula, Australia, Africa. Brazil.

*A. cheilosorum* Kunze. ex Mett. Aspl. 133. t. 5. f. 12-13. 1859 ; Mehra & Bir, Res. Bull. (N.S.) Punjab Univ. 15 : 157. 1964. *A. heterocarpum* Wall. ex. Hook. Sp. Fil. 3 : 132. t. 175. 1860 ; Clarke, Trans. Linn.

Soc. Lond. II. Bot. 1 : 481. 1880 ; Bedd. Handb. Ferns Brit. India 153. t. 77. 1883.

*Distrib.* : India (Himalayas from Nepal to Bhutan, S. India, Meghalaya, Sri Lanka, Malay Peninsula, China, Borneo, Formosa, Philippines.

**A. crinicaule** Hance in Annal. Sci. Nat. ser. V. 5 : 254. 1866 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 479. 1880 ; Bedd. Handb. Ferns Brit. India 150. 1883. *A. falcatum* Bedd. Ferns South. India t. 141. 1865.

*Distrib.* : South India, Himalays, China.

**A. crinicaule** var. **sikkimense** Bir, Journ. Indian Bot. Soc. 43 : 564. 1964.

*Distrib.* : India (Sikkim).

**A. decrescens** Kunze in Linnaea 24 : 261. 1851. *A. contiguum sensu* Moore, Ind. Fil. 121. 1859 ; Bedd. Ferns South. India t. 140. 1865. *A. caudatum sensu* Hook. Sp. Fil. 3 : 152. 1960 ; Bedd. Handb. Ferns Brit. India 151. 1883.

*Distrib.* : South India, Sri Lanka, Malay Peninsula, Australia, Africa, Brazil.

**A. disjunctum** Sledge, Bull. Brit. Mus. (N.H.) London Bot. 3 : 273. 1965.

*Distrib.* : India, Sri Lanka.

**A. elasticum** Fèe, Gen. Fil. 196. 1892.

*Distrib.* : India.

**A. ensiforme** Wall. ex Hook. & Grev. Icon. Fil. t. 71. 1829 ; Bedd. Ferns South. India t. 125. 1863 ; Handb. Ferns Brit. India 141. t. 71. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 476. 1880.

*Distrib.* : Throughout India in mountainous regions, Burma, Sri Lanka, China, Thailand, Indochina.

**A. erectum** Bory ex Willd. in Linn. Sp. Pl. ed. 4. 5 : 328. 1810. *A. lunulalum* var. *B. camptorachis* Bedd. Handb. Ferns Brit. India 148. 1883.

*Distrib.* : S. India, Sri Lanka, S. Africa, Java, Timor, Samoa, Hawaii, Islands.

**A. falcatum** Lam. Encycl. 2 : 306. 1786 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 476. 1880 ; Bedd. Handb. Ferns Brit. India 150. 1883. *A. caudatum sensu* Bedd. Ferns South. India t. 143. 1865. *Trichomanes adiantoides* L. Sp. Pl. 2 : 1098. 1753. *Asplenium adiantoides* (L.) C. Chr. Ind. Fil. 99. 1905.

*Distrib.* : India (S. India. Sikkim), Sri Lanka, Bangladesh, Malay Peninsula, Australia, Africa, Polynesia.

**A. falcatum** var. **bipinnatum** Sledge, Bull. Brit. Mus. (N.H.) Lond. Bot. 3 : 262. 1965 ; Manickam & Ninan. New Botanist 1 : 26. 1976. *A. mysorensense* Roth. Nov. Pl. 395. 1821 (*pro parte*). *A. spathulinum sensu* Bedd. Ferns South, India 75. t. 226. 1864. (*non* J. Sm. ex Hook.).

*Distrib.* : S. India, Madagascar, Mascareen, S. China, Malaya, Indonesia, Philippines, Polynesia, Australia, New Zealand.

**A. finlaysonium** Wall. ex Hook. Icon. Pl. t. 937. 1854. *Hemidictyum finlaysonium* (Wall. ex Hook.) Moore, Ind. Fil. 50. 1857 ; Bedd. Handb. Ferns Brit. India 195. t. 96. 1883. *A. macrophyllum sensu* Ito in Hara's Fl. East. Himal. 488. 1966.

*Distrib.* : India (Eastern Himalayas, Eastern India), Bangladesh, Malaya Peninsula.

**A. fontanum** (L.) Bernh. Schrad. Journ. Bot. 1799. (1) : 314. 1799 ; Bedd. Ferns Brit. India t. 146. 1867 ; Handb. Ferns Brit. India 158. 1883. *Polyodium fontanum* L. Sp. Pl. 2 : 1089. 1753.

*Distrib.* : India (North-West Himalayas), Europe.

**A. formosum** Willd. in Linn. Sp. Pl. ed. 4. 5 : 329. 1810.

*Distrib.* : India (Eastern Himalayas), America, Africa, Sri Lanka, Australia, West Indies.

**A. gardeneri** Bak. Gardn. Chron. 1873 : 712. 1873 ; Bedd. Ferns Brit. India Suppl. t. 355. 1876 ; Handb. Ferns Brit. India 151. 1883.

*Distrib.* : India (Meghalaya), Sri Lanka.

**A. germanicum** Weis. Pl. Crypt. Fl. Gott. 299. 1770 ; Bedd. Handb. Ferns Brit. India Suppl. 31. 1892.

*Distrib.* : India (Kashmir), Scotland, Norway to Hungary and Dalmatia.

**A. griffithianum** Hook. Icon. Pl. 87. f. 928. 1854 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 476. 1880 ; Bedd. Ferns Brit. India t. 58. 1865 ; Handb. Ferns Brit. India 142. 1883.

*Distrib.* : N. E. India, Burma.

**A. indicum** Sledge, Bull. Brit. Mus. (N.H.) 3 : 264. 1965. *A. planicaule* Wall. List no. 189. 1829 (*nom. nud.*) ex Mett. Aspl. 157. 1859 ; Bedd. Ferns South. India t. 139. 1865. *A. laciniatum* var. *planicaule* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 482. 1880. *A. laciniatum sensu* Bedd. Handb. Ferns Brit. India 154. 1883 (*pro parte*, *non* D. Don.)

*Distrib.* : India (North-West Himalayas ; Meghalaya, South India), Sri Lanka, China, Burma, Thailand, Indochina, Philippines, Japan.

**A. inaequilaterale** Willd. in Linn. Sp. Pl. ed. 4. 5 : 322. 1810. *A. brachyotus* Kunze in Linnaea 10 : 512. 1836. *A. trapeziforme sensu* Bedd. Ferns South. India 45. t. 134. 1865. *A. lunulatum* var. *trapeziforme* Bedd. Handb. Ferns Brit. India 148. 1883 (*pro parte*).

*Distrib.* : South India, Sri Lanka, S. America, S. Africa, Madagascar, Reunion.

*A. khasianum* Sledge, Kew Bull. 15 : 397. f. 1 A-D. 1962. *A. gardneri* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 480. (non Bak. 1873).

*Distrib.* : India (Maghalaya).

*A. laciniatum* D. Don, Prod. Fl. Nepal 8. 1825 var. *laciniatum* ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 481. 1880. (*Pro parte*) : Bedd. Handb. Ferns Brit. India 154. 1883 (*pro parte*). Bedd. Ferns South. India t. 145. 1865.

*Distrib.* : Himalayas, S. India, Sri Lanka, Japan, Formosa.

*A. laciniatum* var. *acutipinna* Bir, Journ. Indian Bot. Soc. 43 : 558 1964.

*Distrib.* : India (Eastesn Himalayas).

*A. laciniatum* var. *subintegrifolium* Mehra & Bir, Res. Bull. (N.S.) Punjab Univ. 15 : 157. 1864.

*Distrib.* : India (Eastern Himalayas).

*A. macrophyllum* Sw. Schrad. Journ. Bot. 1800 (2) : 52. 1801 ; Bedd. Handb. Ferns Brit. India 150. 1883.

*Distrib.* : Himalayas, Sri Lanka, Tonkin, Malay Peninsula, Malay Islands, Polynesia, Mascareen Islands.

*A. neolaserpitifolium* Tard. - Blot et Ching, Notul. Syst. 5 : 153. t. 6. f. 1, 2. 1936 ; Joseph & Singh, Bull. Bot. Surv. India 24 (1 - 4) : 189. t. 1. f. 1 - 4. 1982.

*Distrib.* : India (Arunachal Pradesh, Sikkim), S. China, Vietnam.

*A. nidus* L. Sp. Pl. 2 : 1079. 1753 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 457. 1880 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 459. 1901. *Thamnopteris nidus* Presl, Epim. Bot. 68. 1849 ; Bedd. Handb. Ferns Brit. India 137. 1883.

*Distrib.* : Throughout India in hilly regions, China, Japan.

*A. nidus* var. *acutifolium* Bir, Journ. Indian Bot. Soc. 43 : 567. 1964.

*Distrib.* : India (Sikkim).

*A. nidus* var. *phyllitidis* (D. Don) Bir, Journ. Indian Bot. Soc. 43 : 567. 1964. *A. phyllitidis* D. Don Prod. Fl. Nepal. 7. 1825. *Thamnopteris-nidus* var. *phyllitidis* (D. Don) Bedd. Handb. Ferns Brit. India 139. 1883.

*Distrib.* : India (North-Eastern Himalayas Andaman & Nicobar Islands), Malaya, Burma, and tropics of the old world.

*A. nitidum* Sw. Syn. Fil. 84. 280. 1806 ; Clarke Trans. Linn. Soc. Lond. II. Bot 1 : 483. 1880 ; Bedd. Handb. Ferns Brit. India 157. 1883. *A. nitidum* var. *obtusum* Bedd. Ferns South India t. 149. 1865.

*Distrib.* : India (Himalayas from Nepal to Assam, S. India), Sri Lanka, Malay Peninsula, Malay Islands, S. Africa.

**A. normale** D. Don, Prod. Fl. Nepal. 7. 1825 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 477. 1880 ; Bedd. Handb. Ferns Brit. India 144. 1883. *A. multijugam* Wall. ex Mett. Aspl. 135. 1859 ; Bedd. Ferns South. India f. 133. 1865.

*Distrib.* : South India, Himalayas, Nepal, Bhutan, Sri Lanka.

**A. obscurum** Bl. Enum. Pl. Jav. 181. 1828. *A. cristatum* Wall. List no. 211. 1828 (*nom. nud.*).

*Distrib.* : South India, North India, Sri Lanka, Africa, Burma, Thailand, Indo-china, Java.

**A. paucivenosum** (Ching) Bir, Bull. Bot. Surv. India 4 : 3. 1962. *Ceterach paucivenosa* Ching, Bull. Fan Mem. Inst. Biol. Bot. 2 : 210. f. 28. 1931. *Ceterachopsis paucivenosa* Ching, Bull. Fan Mem. Inst. Biol. Bot. 10 : 9. 1940.

*Distrib.* : India (Eastern Himalayas).

**A. paucivenosum** var. **majus** Bir, Amer. Fern Journ. 62 : 46. 1972.

*Distrib.* : India (Eastern Himalayas).

**A. pellucidum** Lam. Encycl. Méth. Bot. 2 : 305. 1786. *A. hirtum* Kaulf. Enum. 169. 1824 ; Bedd. Ferns Brit. India t. 194. 1867 ; Handb. Ferns Brit. India 149. 1883.

*Distrib.* : India (Sikkim), Burma, Mascareen Islands, Hong-Kong, Philippines, Solomon Islands.

**A. perakense** Mathew et Christ, Journ. Linn. Soc. 39 : 214. 1904.

*Distrib.* : E. India, Malay Peninsula.

**A. planicaule** Wall. ex Mett. Aspl. 158. 1828 ; Bedd. Ferns South. India t. 39. 1863 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 482. 1880. Bedd. Handb. Ferns Brit. India 154. 1883 (*pro parte*).

*Distrib.* : India (Himalayas, S. India), Sri Lanka, China, Burma, Japan, Formosa, Madagascar.

**A. planicaule** var. **obtusa** Bir, Journ. India Indian Bot. Soc. 43 (4) : 561. f. 8. 1964.

*Distrib.* : India (Eastern Himalays).

**A. planicaule** var. **yoshinage** (Mak.) Bir, Journ. Indian Bot. Soc. 43 : 562. 1964. *A. yoshinage* Mak. Phan. Pter. Jap. IC III. t. 64. 1900. *A. planicaule* f. *viviparum* (Wu) Ching, Bull. Dept. Biol. Sun. Yatsen Univ. no. 6. 26. 1933.

*Distrib.* : Himalays, Japan to S.W. China, Africa.

**A. prolongatum** Hook. 2nd Cent. Ferns t. 42. 1860. *A. rutaefolium* Kunze in *Linnaea* 10 : 521. 1836. Bedd. Ferns South. India t. 138. 1856 ; Handb. Ferns Brit. India 159. 1883.

*Distrib.* : India (South India, Himalays), Sri Lanka, Bhutan, Nepal, Burma, Africa, Japan, Fiji.

**A. pumilum** var. **hymenophylloides** (Fée) Clarke, Trans. Linn. Soc. Lond. II Bot. 1 : 482. 1810.

*Distrib.* : India (Rajasthan) Abyssinia.

**A. ruta-maria** L. Sp. Pl. 2 : 1081. 1753 ; Bedd. Ferns. Brit. India t. 61. 1865 ; Handb. Ferns Brit. India 156. 1883.

*Distrib.* : India (Kashmir ), Europe, N. Africa, Tibet, Siberia, United States.

**A. rockii** C. Chr. Contrib. U.S. Nat. Herb. 26 : 332. f. 27. 1931 ; Balakr. & Hazra, Bull. Bot. Surv. India 6 : 315. 1964.

*Distrib.* : Eastern India, Malay Islands.

**A. septentrionale** (L.) Hoffm. Deutschl. Fl. 2 : 12. 1795 ; Bedd. Handb. Ferns Brit. India 145. 1883. *Acrostichum septentrionale* L, Sp. Pl. 2 : 1068. 1753.

*Distrib.* : India (N.W. Himalayas), Arctic and alpine Europe, Asia, America.

**A. sericula** Fée, Mém. Fam. Foug. 5 : 196. 1852. *A. wightianum* Wall. ex Hook. Sp. Fil. 3 : 105. t. 167. 1860 ; Bedd. Ferns South. India t. 126. 1865 ; Handb. Ferns Brit. India 146. t. 73. 1887.

*Distrib.* : S. India, Sri Lanka, Philippines.

**A. sorelii** Hook. in Blakiston Five months on yangtze 363, 364. 1862 ; Bir & Shukla, Nova Hedw. 16 : 477. 1968. *A. Saulii* Bak. in Hook. et Bak. Syn. Fil. ed. 2 : 216. 1874 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 661. t. 18. 1901.

*Distrib.* : India (N.W. Himalayas), China, Japan.

**A. spathulinum** J. Sm. Sp. Fil. 3 : 170. 1860.

*Distrib.* : India (Himalayas).

**A. tenerum** Forst. Prod. 80. 1786.

*Distrib.* : India, Australia, Sri Lanka, Malesia, Polynesia.

**A. tenerum** var. **terminans** Mett. in Abhandl. Senckneb. Naturf. Ges. 3 : 113. 1859.

*Distrib.* : South India, Sri Lanka, Malesia-Polynesia, Burma, Thailand, Indo China, Malaya, Java, Borneo, Philippines, New Guinea, polynesia.

**A. tenuifolium** D. Don, Prod. Fl. Nepal 8. 1825; Clarke, Trans. Linn.



Soc. Lond. II. Bot. 1 : 485. 1880 ; Bedd. Handb. Ferns. Brit. India 159 t. 79. 1883 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 667. 1901.

*Distrib.* : India (Himalayas, S. India), Nepal, Bhutan, Burma, Sri Lanka.

**A. trichomanes** L. Sp. Pl. 2 : 1080. 1753 ; Bedd. Ferns South. India t. 147. 1865 ; Handb. Ferns Brit. India 144. 1883.

*Distrib.* : South India, North India from Nepal to Assam, W. China, Sri Lanka, Indo-china, Formosa.

**A. unilaterale** Lam. Encycl. Méth. 2 : 305. 1786 ; Bedd. Handb. Ferns Brit. India 152. 1883 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13. 658. 1901.

*Distrib.* : India (Himalayas), Sri Lanka, Burma, Indo - China, Malaya Peninsula, China, Formosa. Japan, Philippines, Malaya Islands, Polynesia, Hawaii, E. Africa.

**A. unilaterale** var. **majus** (C. Chr.) Sledge, Bull. Brit. Mus. (N.H.) Lond. Bot. 3 : 246. 1965. *A. unilaterale* f. *majus* C. Chr. in Bernice P. Bishop. Mus. Bull. 177. 67. 1943. *A. excisum* Presl, Epim Bot. 74. 1849 ; Mehra & Bir, Res. Bull. (N.S.) Punjab. Univ. 15. 158. 1964.

*Distrib.* : India (North India, South India), Indonesia, New Guinea, Japan, Philippines, Sri Lanka, Malaya, Indochina.

**A. unilaterale** var. **rivale** Bedd. Handb. Ferns Brit. India 153. 153. 1883.

*Distrib.* : South India.

**A. unilaterale** var. **udum** Atkin. ex Bedd. Handb. Ferns. Brit. India 153. 1883.

*Distrib.* : India (Himalayas).

**A. varians** Wall. ex Hook. & Grev. Icon. Fil. 2. t. 72. 1829 ; Bedd. Handb. Ferns Brit. India 158. 1883 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 667. 1901.

*Distrib.* : India (S. India & Himalayas), Sri Lanka, China, Formosa, Korea, Japan, S. Africa, Hawaii.

**A. viride** Hudson, Fl. Angl. 385. 1762 ; Bedd. Ferns Brit. India t. 64. 1865 ; Handb. Ferns Brit. India 143. 1883.

*Distrib.* : India (North-West Himalayas), Europe, Asia, N. America in Arctic and Alpine regions.

**A. zenkerianum** Kunze, Linnaea 24 : 259. 1851 ; Bedd. Handb. Ferns Brit. India 148. t. 75. 1883. *A. persicifolium* var. *latifolium* Hook. Sp. Fil. 3 : 109. 1860 ; Bedd. Ferns South. India t. 127. 1865.

*Distrib.* : South India, Sri Lanka.

**Ceterach** Willd. Anleit. Scelsbstud. Bot. 578. 1804. *nom. cons.*

Type : **C. officinarum** Willd. in Linn. Sp. Pl. 5 : 136. 1810.

**C. officinarum** Willd. in Linn. Sp. Pl. 5 : 136. 1810 ; Bedd. Ferns Brit. India t. 71. 1865. *Asplenium ceterach* L. Sp. Pl. 2 : 1080. 1753. *Hemidictyum ceterach* Bedd. Ferns Brit. India Suppl. 13. 1876 ; Handb. Ferns Brit. India 194. t. 94. 1883.

*Distrib.* : India (North - West Himalayas), Afghanistan, Western Asia, Europe, North - West Africa.

**Ceterachopsis** (J. Sm.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 10 : 8. 1940.

Type : **C. dalhousiae** (Hook.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 10 : 8. 1940.

**C. dalhousiae** (Hook.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 10 : 8. 1940. *Asplenium alternans* Wall. ex Hook. Sp. Pl. 3 : 92. 1860 ; Bedd. Ferns Brit. India t. 59. 1865 ; Handb. Ferns Brit. India 142. t. 72. 1883.

*Distrib.* : India (N.W. Himalayas, eastward to Sikkim), Abyssinia.

**Sinephropteris** Mick. Britt. 28 (3) : 326. 1976.

Type : **S. delavayi** (Franch.) Mick. Britt. 28 (3) : 327. f. 1 - 2. 1976.

**S. delavayi** (Franch.) Mick. Britt. 28 (3) : 327. f. 1 - 2. 1976. *Scolopendrium delavayi* Franch. Bull. Soc. Bot. Fr. 32 : 28. 1885 ; Bedd. Handb. Ferns Brit. India Suppl. 41. 1892.

*Distrib.* : India (Sikkim, Manipur), Tibet, China.

#### ONOCLEACEAE Pic. Ser.

**Matteuccia** Tod. Giorn. Sc. Nat. Econ. Palermo. 1 : 255. 1866 ; Nayar & Kazmi, Bull. Nation. Bot. Gard. Lucknow no. 62. 11 f. 39. 1963.

Type : **M. struthiopteris** (L.) Tod. Giorn. Sc. Nat. Econ. Palermo 1 : 235. 1866.

**M. orientalis** (Hook.) Trev. Atti. Ist. Veneto III, 14 : 586. 1869. *Struthiopteris orientalis* Hook. 2nd Cent. Ferns t. 4 1860 ; Bedd. Ferns Brit. India t. 171. 1865 ; Handb. Ferns Brit. India 20. t. 9. 1883. *Onoclea orientalis* Hook. Sp. Pl. Fil. 4 : 161. 1862 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 434. 1880.

*Distrib.* : India (Sikkim, Assam, Meghalaya), China, Japan.

## WOODSIACEAE (Diels) Ching ex Herter

**Cheilanthopsis** Hieron. Notizbl. Berlin 7 : 406. 1920.

Type : **C. straminea** (Brause) Hieron. Notizbl. Berlin 7 : 406. 1920.

**C. straminea** (Brause) Hieron. Notizbl. Berlin 7 : 406. 1920.

**Cheilanthes siraminea** Brause, Hedw. 54 : 205. t. 4 H. 1914.

*Distrib.* : India (North - East Himalayas), China.

**Woodsia** R. Br. Prod. Fl. Nov. Holl. 158. 1810 ; Ching, Sinensia 3 (5) : 130. 1932 ; Brown, Beech. Nova. Hedw. 16 : 102. 1956.

Lectotype : **W. ilvensis** R. Br. Prod. Fl. Nov. Holl. 158. 1810.

**W. alpina** R. Br. Prod. Fl. Nov. Holl. 158. 1810. **W. hyperborea** R. Br. Prod. Fl. Nov. Holl. 158. 1810 ; Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 434. 1880 ; Bedd. Handb. Ferns Brit. India 20. 1883.

*Distrib.* : India (Kashmir) Northern & Central Europe, N. & Central Asia, N. America, South to the Northern United States.

**W. andersonii** (Bedd.) Christ, Mém. Soc. Bot. France 1 : 45. 1905. **Gymnogramme andersonii** Bedd. Ferns Brit. India t. 190. 1867 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 569. 1880 ; Bedd. Handb. Ferns Brit. India Suppl. 100. 1892 (*pro parte*).

*Distrib.* : India (Himalayas), Tibetan plateau, China.

**W. cycloloba** Hand. - Mzt. Symb. Sin. 6 : 19. t. 1. f. 5. 1929.

*Distrib.* : India (North-West Himalayas, Sikkim), Nepal, China (Yunnan.).

**W. elongata** Hook. Sp. Fil. 1 : 62. t. 21 c. 1844 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 435. 1880 ; Bedd. Ferns Brit. India t. 14. 1865 ; Handb. Ferns Brit. India 22. t. 10. 1883.

*Distrib.* : India (Himalayas), Nepal, Bhutan.

**W. hancockii** Bak. Ann. Bot. 5 : 196. 1891.

*Distrib.* : India (North - West Himalayas), Nepal, China.

**W. lanosa** Hook. Syn. Fil. 47. 1866 ; Bedd. Handb. Ferns Brit. India Suppl. 22. 1892 (*non* Ferns Brit. India t. 341 1870).

*Distrib.* : India (N. W. Himalayas), Sikkim, China.

**W. rosthorniana** Diels in Engl. Bot. Jahrb. 29 : 187. 1900. **W. delavayii** Christ, Bull. Soc. Bot. France 42. mém. 1 : 45. 1905. **W. lanosa** var. **attenuata** Christ. Bot. Gaz. 56 : 338. 1913.

*Distrib.* : India (Eastern Himalayas), Bhutan, China.

## ATHYRIACEAE Ching

**Acystopteris** Nakai, Bot. Mag. Tokyo 47 : 180. 1933.

Type : *A. japonica* (Luer) Nakai Bot. Mag. Tokyo 47 : 180. 1933.

*A. tenuisecta* (Bl.) Tagawa, Acta Phytotax. Geobot. 7 : 73. 1938.  
*Aspidium tenuisectum* Bl. Enum. Pl. Jav. 170. 1828. *Cystopteris setosa*  
 (Bedd.) Bedd. Ferns Brit. India t. 312. 1869 ; Handb. Ferns Brit. India  
 71. 1883. *Lastrea setosa* Bedd. Ferns Brit. India t. 262. 1868. *non* Presl.  
 1848, *nec* Moore 1858. *Davallia setosa* (Bedd.) Bak. in Hook. et. Bak. Syn.  
 Fil. 468. 1874.

*Distrib.* : India (Sikkim), China, Japan, Indo - China, Java.

*Anisocampium* Presl, Epim. Bot. 58. 1849.

Type : *A. cumingianum* Presl, Epim Bot. 59. 1849.

*A. cumingianum* Presl, Epim. Bot. 59. 1849. *Nephrodium ottaria*  
*sensu* Bedd. Handb. Ferns. Brit. India 267 t. 137. 1883.

*Distrib.* : India (Assam, South India), Sri Lanka.

*Athyriopsis* Ching, Bull. Fan Mam. Inst. Biol. Bot. 9 : 63. 1964.

Type : *A. japonica* (Thunb.) Ching, Acta Phytotax. Sin. 9 : 63.  
 1964.

*A. japonica* (Thunb.) Ching, Acta Phytotax. Sin. 9 : 63. 1964.  
*Asplenium japonicum* Thunb. Fl. Jap. 334. 1784. *Diplazium japonicum*  
 (Thunb.) Bedd. Ferns Brit. India Suppl. 12. 1876 ; Handb. Ferns. Brit.  
 India 180. 1883. *D. decussatum* Bedd. Ferns Brit. India t. 292. 1868.

*Distrib.* : Throughout India in mountainous regions, Sri Lanka,  
 China, Japan, Polynesia, Malay Peninsula.

*Athyrium* Roth. Rom. Mag. 2(1) : 105. 1799 ; Sledge, Bull. Brit.  
 Mus. (N. H.) Lond. Bot. 2 : 289. 1962.

Type : *A. filix-femina* (L.) Roth. Rom. Mag. 2(1) : 106. 1799.

*A. anisopterum* Christ, Bull. Herb. Boiss. 6 : 962. 1898. *A. macro-*  
*carpon* Bedd. Ferns South. India 51. t. 152. 1865 (*pro parte*). *Asplenium*  
*macrocarpon* var. *atkinsonii* Hook. & Bak. Syn. Fil. ed. 2 : 489. 1874.  
 (Atkinsoni) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 489. 1880.

*Distrib.* : India (N. W. Himalayas, eastwards to Assam, S. India),  
 Burma, China, Indo - China, Malaya, Luzan. Borneo.

*A. atkinsonii* Bedd. Ferns Brit. India. Suppl. 11. t. 359. 1876 ;  
 Handb. Ferns Brit. India 163. 1883. *Asplenium atkinsonii* (Bedd.) Clarke,  
 Trans. Linn. Soc. Lond. II. Bot. 1 : 487. 1880.

*Distrib.* : India (Sikkim), Japan.

*A. atratum* Bedd. Handb. Ferns Brit. India Suppl. 33. 1892.

*Distrib.* : India (Manipur).

*A. attenuatum* (Clarke), Tagawa, Acta Phytotax. et Geobot. 16 :  
 177. 1956. *Asplenium filix-femina* var. *attenuata* Clarke, Trans. Linn. Soc.

Lond. II. Bot. 1 : 462. t. 59. f. 1. 1880. *Athyrium filix-femina* var. *attenuata* (Clarke) Bedd. Handb. Ferns. Brit. India 169. 1883.

*Distrib.* : India (Kashmir, Sikkim).

*A. brevisorum* (Wall. ex Hook.) Moore, Ind. Fil. 117. 1859. *Asplenium brevisorum* Wall. ex Hook. Sp. Fil. 8 : 229. 1860.

*Distrib.* : India (Himalayas).

*A. clarkei* Bedd. Ferns Brit. India. Suppl. t. 360. 1876. *A. nigripes* var. *Clarkei* (Bedd.) Bedd. Ferns Brit. India 166. 1883. *A. nigripes* var. *tenuifrons* Wall. ex Bedd. Handb. Ferns. Brit. India Suppl. 33. 1892.

*Distrib.* : India (Eastern Himalayas), Nepal.

*A. crenatum* (Sommerf.) Rupr. ex Nyland. Spicil. Pl. Fenn. 2 : 14. 1844. *Aspidium crenatum* Sommerf. Vet. A.K. Handl. 1834 : 104. 1835.

*Distrib.* : India (Kashmir), Europe, Asia temperate.

*A. dentigerum* (Clarke) Mehra & Bir, Amer. Fern Journ. 50. 279. 1960. *Asplenium filix-femina* var. *dentigera* Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 491. 1880. *Polypodium dentigerum* Wall. list no. 334. 1828.

*Distrib.* : India (Himalayas), Nepal.

*A. dissitifolium* (Bak.) C. Chr. Contr. U. S. Nat. Herb. 26 : 296. t. 18. 1931. *Polypodium dissitifolium* Bak. Kew Bull. Misc. 1895 : 54. 1895.

*Distrib.* : (Himalayas), Burma, Thailand, China.

*A. drepanopterum* (Kunz.) A. Br. ex Milde Fil. Fur. 49. 1867. *Polypodium drepanopterum* Kunze in Linnaea 23 : 278, 318. 1850. *Athyrium oxyphyllum* Moore Ind. Fil. XLIX. 1857 ; Bedd. Fern Brit. India t. 67. 1865 ; Handb. Ferns Brit. India 171. 1883.

*Distrib.* : India (Himalayas, S. India).

*A. duthei* (Bedd.) Bedd. Handb. Ferns. Brit. India Suppl. 34. 1892. *Asplenium duthei* Bedd. Journ. Bot. 27 : 72. 1889.

*Distrib.* : India (N. W. Himalayas, Sikkim).

*A. falcatum* Bedd. Ferns South. India t. 151 1865 ; Handb. Ferns Brit. India 164. 1883. *Athyrium drepanophyllum* Bedd. Handb. Ferns Brit. India Suppl. 32. 1892.

*Distrib.* : Throughout India in mountainous regions.

*A. filix-femina* (L.) Roth, Rom. Mag. 2 (1) : 106. 1799 ; Bedd. Handb. Ferns Brit. India 168. 1883. *Polypodium filix-femina* L. Sp. Pl. 2 : 1090. 1753.

*Distrib.* : India (Himalayas).

**A. filix-femina** var. *retusa* (Decne) Bedd. Handb. Ferns. Brit. India 170. 1883. *Cystopteris retusa* Decne, Jacq. Voy. Bot. 176. t. 177. 1844. *Asplenium filix-femina* var. *retusa* (Decne) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 492. t. 49. f. 2. 1880.

*Distrib.* : India : Kashmir to Bhutan.

**A. fimbriatum** (Wall.) Moore, Ind. Fil. 185. 1860 ; Bedd. Ferns Brit. India t. 295. 1868 ; Handb. Ferns Brit. India t. 83. 1883 (*pro parte*). *Aspidium fimbriatum* Wall. List. no. 339. 1828 (*pro parte*). *Asplenium fimbriatum* Hook. Sp. Fil. 3 : 234. 1860. **A. andersonii** Clarke, Journ. Linn. Soc. 15 : 154. 1876. **A. atkinsoni** var. *andersonii* (Clarke) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 494. 1880.

*Distrib.* : India (Himalayas), China.

**A. flabellulatum** (Clarke) Tard. Aspl. du Tonkin 81. t. 12. 1932. *Asplenium filix-femina* var. *flabellulata* (Clarke) Bedd. Handb. Ferns Brit. India 170. 1883.

*Distrib.* : India (Sikkim).

**A. foliolosum** (Wall.) Moore ex Sm. Cat. Hort. no. 6 : 22. 1859 ; Moore, Ind. Fil. 185. 1860 ; Bedd. Handb. Ferns Brit. India Suppl. 37. 1892. *A. fimbriatum* var. *foliosa* Wall. List no. 359. 1828 ; Bedd. Handb. Ferns Brit. India 172. 1883. *Asplenium fimbriatum* var. *foliosa* (Wall.) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 495. t. 62. f. 2. 1880.

*Distrib.* : India (Sikkim), Nepal.

**A. himalicum** Ching ex Mehra & Bir, Res. Bull. (N. S.) Punjab. Univ. 15 : 137. f. 26 - 29. 1964.

*Distrib.* : India (Sikkim).

**A. hohenackerianum** (Kunze) Moore, Ind. Fil. XLIX. 1857 ; Bedd. Ferns South. India t. 151. 1865 ; Handb. Ferns Brit. India 163. 1883. *Altantoidea hohenackeriana* Kunze, Farrnkr. 2 : 63. t. 126. 1850. ("Hohenackeriana").

*Distrib.* : S. India, Sri Lanka.

**A. mackinnoni** (Hope) C. Chr. Ind. Fil. 143. 1905. *Asplenium mackinnoni* Hope, Journ. Bot. 34 : 124. 1896 ; Journ. Bomb. Nat. Hist. Soc. 14 : 122. 1902.

*Distrib.* : India (Himalayas).

**A. macrocarpum** (Bl.) Bedd. Ferns South. India 51. t. 153. 1865 (excl. t. 152.) ; Handb. Ferns Brit. India 165. 1883. *Aspidium macrocarpum* Bl. Enum. Pl. Jav. 162. 1828. *Asplenium macrocarpum* (Bl.) Hook. Sp. Fil. 3 : 222. 1860.

*Distrib.* : India (North and South India), Sri Lanka, Tonkin, Java.

**A. mehrae** Bir, Nova Hova Hedw. 4 : 165. 1 - 5. 1962.

*Distrib.* : India (Sikkim).

**A. nakanoi** Makino. Bot. Mag. Tokyo 23 : 247. 1909. *Asplenium macrorcarpum* var. *unibinnatum* Clarke, Trans Linn. Soc. Lond. Bot. 1 : 489. 1880. *Athyrium macrorcarpum* var. *unibinnatum* (Clarke) Bedd. Handb Ferns Brit. India 165. 1883.

*Distrib.* : India (Himalayas), Bhutan, Formosa, Japan.

**A. nigripes** (Bl.) Moore Ind. Fil. XLIX. 98. 1858. *Aspidium nigripes* Bl. Enum. Pl. Jav. 2 : 162. 1828. *Athyrium solenopteris sensu* Bedd. Handb. Ferns Brit. India 166. 1883 (*pro parte*), non T. Moore.

*Distrib.* : India (S. India, Himalayas), Sri Lanka.

**A. parasnathense** (Clarke) Ching ex Bir, Journ. Indian Bot. Soc. 43 : 569. 1964. *Asplenium filix-femina* var. *parasnathensis* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 593. 1880. *Athyrium filix-femina* var. *parasnathensis* (Clarke) Bedd. Handb. Fern Brit. India 170. 1883.

*Distrib.* : India (Bihar : Parasnath hills).

**A. pectinatum** (Wall. ex Hope) Presl, Tent. Pterid. 98. 1836 ; Bedd. Handb. Ferns Brit. India Suppl. 36. 1892. *Asplenium pectinatum* Wall. List no. 231. 1828 (*nom. nud.*) ex Hope, Journ. Bombay Nat. Hist. Soc. 14 : 253. 1902. *A. filix-femina* var. *pectinata* (Wall. ex Hope) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 492. t. 58. 1880. *Athyrium filix-femina* var. *pectinata* (Wall. ex Hope) Bedd. Handb. Ferns Brit. India 169. 1883.

*Distrib.* : Throughout India in mountainous regions.

**A. praetermissum** Sledge in Arn & Mag. Nat. Hist. ser. 12. 9 : 457. t. 16. 1956. var. *praetermissum*. *A. costale* Moore. Ind. Fil. 180. 1860 (*pro parte*) quoad specim. ex Ceylon et Nilgiri, non *Aspidium costale* Bl. *A. nigripes sensu* Bedd. Ferns South. 52. t. 157. 1864 ; Handb. Ferns Brit. India 166. 1883 (*pro parte*), non T. Moore. *Asplenium nigripes sensu* Hook. et Bak. Syn. Fil. 227. 1867 *pro parte*, (non Hook) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 490. 1880 (*pro parte*). *Athyrium solenopteris sensu* Bedd. Handb. Ferns Brit. India 166. 1883 (*pro parte*), quoad. Syn. *Athyrium nigripes* Bedd. non T. Moore.

*Distrib.* : India, Java.

**A. puncticaule** (Bl.) Moore, Ind. Fil. 1860. *Aspidium puncticaule* Bl. Enum. Pl. Jav, 156. 1828.

*Distrib.* : India (Himalayas).

**A. rubricaulis** (Edgew.) Bir, Nova Hedw. 4 : 169. f. 12 - 13. 1862. *Asplenium filix-femina* var. *retusa* subvar. *rubricaulis* Edgw. in Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 492. t. 59. f. 2. 1880.

*Distrib.* : India (Eastern Himalayas).

**A. rupicola** (Hope) C. Chr. Ind. Fil. 145. 1905. *Asplenium rupicola* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 531. t. 5. 1899. *A. filix-femina* var. *retusa* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 492. 1880 (*pro parte*) *Athyrium filix-femina* var. *retusa* (Clarke) Bedd. Ferns Brit. India 170. 1883 (*pro parte*).

*Distrib.* : Himalayas from Kashmir to Bhutan.

**A. schimperi** Moug. ex Fée, Mém. Gen. Fil. 187. 1850–52 ; Bedd. Handb. Ferns Brit. India Suppl. 36. 1862.

*Distrib.* : India (Eastern Himalayas) Abyssinia and the Cameroon mountains.

**A. setiferum** C. Chr. Ind. Fil. 146. 1905. *Athyrium nigripes* Mett. var. *disecta* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 491. 1880. *Athyrium nigripes* Bedd. Handb. Ferns Brit. India 166. 1883 (*pro parte*).

*Distrib.* : India (Himalays), Nepal, Bhutan.

**A. solenopteris** (Kunze) Moore, Ind. Fil. 43. 1857 ; 187. 1860 ; Bedd. Handb. Ferns Brit. India 166. 1883. (excl. parte). var. *solenopteris*. *Allantoidea solenopteris* Kunze, Linnaea 24 : 266. 1851. *Athyrium pectinatum* Bedd. Ferns South. India 51. t. 155. 1864 ; *pro parte* ; non *Asplenium pectinatum* Wall. ex Mett.

*Distrib.* : S. India, Sri Lanka.

**A. solenopteris** var. *pusillum* (Kunze) Moore, Ind. Fil. 187. 1860. *Allantoidea solenopteris* var. *pusilla* Kunze in Linnaea 24 : 267. 1851. *Athyrium gymnogrammoides* (Klotzsch ex Mett.) Bedd. Ferns South. India 52. 1864 (excl. descr. et. fig.).

*Distrib.* : South India. Sri Lanka.

**A. spinulosum** (Maxim.) Milde, Bot. Zeit. 376. 1866 ; Bedd. Handb. Ferns Brit. India 161. 1883. *Cystopteris spinulosa* Maxim. in Mém. Acad. St. Petersb. 9 : 340. 1850.

*Distrib.* : India (Sikkim), Japan, China, Korea.

**A. strigillosum** Moore in Lowe Ferns Brit. Exot. 5 : t. 36. 1858. *Athyrium clarkei* Bedd. Ferns Brit. India Suppl. 11. t. 360. 1876. *Asplenium clarkei* Atkinson ex Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 489. 1880. *Asplenium tenuifrons* Wall. ex Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 120. t. 22. 1902.

*Distrib.* : India (Himalayas), Burma, China.

**A. subtriangulare** (Hook.) Bedd. Ferns Brit. India t. 242. 1868. *Asplenium subtriangulare* Hook. Syn. Fil. 225. 1867. *A. spinulosum* var. *subtriangulare* (Hook.) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 487. 1880.

*Distrib.* : India (Himalayas), China.



**A. subtriangulare** var. **sikkimense** Bir, Nova Hedw. 4 : 168. f. 9 – 11. 1962.

*Distrib.* : India (N. Sikkim).

**A. wallichianum** Ching, Bull. Fan. Mem. Inst. Biol. Bot. 8 : 497. 1938. *Lastrea brunoniana* (Wall. ex Mett.) Presl ex Bedd. Ferns Brit. India t. 37. 1865 ; Handb. Ferns Brit. India 246. 1883 ; Suppl. 55. 1892 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 522. 1880.

*Distrib.* : India (Himalayas), China.

**Cornopteris** Nakai, Bot. Mag. Tokyo 44 : 7. 1930.

Type **C. decurrenti-alata** (Hook.) Nakai, Bot. Mag. Tokyo 44 : 1938.

**C. birii** Ching ex Bir Nova Hedw. 7 : 502. f. 1 – 7. 1964.

*Distrib.* : India (Sikkim).

**C. macdonellii** (Bedd.) Tard. Amer. Fern. Journ. 48 : 32. 1958. *Asplenium macdonellii* Bedd. Journ. Bot. 1889 : 73. 1889. *Athyrium macdonellii* (Bedd.) Bedd. Handb. Ferns Brit. India Suppl. 34. 1892 (Mc Donelli).

*Distrib.* : India (Himalayas), China.

**C. opaca** (D. Don) Tagawa, Acta Phytotax. Geobot. 8 : 92. 1939. *Hemionitis opaca* D. Don, Prod. Fl. Nepal 13. 1825. *Leptogramma opaca* (D. Don.) Bedd. Handb. Ferns. Brit. India 379. t. 217. 1883. *Gymnogramma opaca* Spr. Syst. 4 : 39. 1827. Bed. Ferns Brit. India t. 238. 1867.

*Distrib.* : India (Himalayas), Nepal, Bhutan, China, Japan, Java.

**C. tenuisecta** (Bl.) Tard. Amer. Fern Journ. 48 : 32. 1958. *Aspidium tenuisectum* Bl. Enum. Pl. Jav. 170. 1828. *Cystopteris setosa* Bedd. Ferns Brit. India t. 312. 1869 ; Handb. Ferns Brit. India 204. 1883.

*Distrib.* : India (Himalayas), Tonkin, China, Formosa, Japan, Malay Islands.

**Cystopteris** Bernh. Schrad. Neu. Journ. 1 (2) : 26. 1805. Blasdel, Mem. Torrey Bot. Club. 21 : 1. 1963 ; Bir & Tirkha, Nova. Hedw. 47 : 1. 1964. *nom. cons.*

Type : **C. fragilis** (L.) Bernh. Neu. Journ. 1(2) : 26. t. 2. f. 9. 1805.

**C. fragilis** (L.) Bernh. Schrad. Neu. Journ. 1(2) : 26. t. 2. f. 9. 1805 ; Bedd. Ferns Brit. India t. 91. 1865 ; Haddb. Ferns Brit. India 70. 1883. *Polypodium fragile* L. Sp. 2 : 1091. 1753.

*Distrib.* : India (Himalayas) and temperate regions of the world.

**C. fragilis** f. **fragilis** Bir & Tirkha, Amer. Fern. Journ. 66(3) : 109. f. 1A, B. 1976.

*Distrib.* : India (Himachal Pradesh), Canada.

**C. fragilis f. granulosa** Bir. & Tirkha, Amer. Fern Journ. 66(3) : 109. f. 2A, B. 1976.

*Distrib.* : India (Himachal Pradesh, Kashmir.)

**C. fragilis f. himalayensis** Bir & Tirkha, Amer. Fern Journ. 66(3) : 110. 3A, B. 1976.

*Distrib.* : India (Kashmir).

**C. montana** (Lam.) Bernh. ex Desv. Prod. 264. 1827 ; Bedd. Handb. Ferns Brit. India Suppl. 15. 1892. *Polypodium montanum* Lam. Fl. Franc. 1 : 23. 1778.

*Distrib.* : India (Kashmir), mountains of Scandinavia, Scotland, Central Europe, Kamschatka, America.

**C. sikkimensis** Ching ex Bir, Nova Hedw. 7 : 504. f. 8 - 15. 1964.

*Distrib.* : India (Sikkim).

**C. sudetica** A. Br. & Milde, Jahrb. Schles. Gés. 1855 : 92. 1855 ; Bedd. Handb. Ferns Brit. India Suppl. 16. 1892 ; Hope, Journ. Bomb. Nat. Hist. Soc. 13 : 36. 1900. *C. moupinensis* Franch. Nouv. Arch. Mus. II. 10 : 111. 1887.

*Distrib.* : India (Sikkim), China, Siberia, Tibet.

**Dictyodroma** Ching, Acta Phytotax. Sin. 9 : 57. 1964.

Type : **D. heterophlebia** (Mett. ex Bak.) Ching, Acta Phytotax. Sin. 9 : 57. 1964.

**D. heterophlebia** (Mett. ex Bak.) Ching, Acta Phytotax. Sin. 9 : 57. 1964. *Aspidium heterophlebium* Mett. ex Bak. Syn. 243. 1867. *Anisogonium heterophlebium* Bedd. Ferns Brit. India t. 329. 1869 ; Handb. Ferns Brit. India 191. t. 93. 1883.

*Distrib.* : India (Himalayas) Nepal, Bhutan, Burma, China.

**Diplaziopsis** C. Chr. Ind. Fil. 227. 1905.

Type : **D. javanica** (Bl.) C. Chr. Ind. Fil. 227. 1905.

**D. javanica** (Bl.) C. Chr. Ind. Fil. 227. 1905. *Asplenium javanicum* Bl. Enum. Pl. Jav. 175. 1828. *Allantoidea javanica* Trev. Nu. Giorn. Bot. It. 159. (nota) 1875 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 505. 1880 ; Bedd. Hand. Ferns Brit. India 195. t. 97. 1883. *A. brunoniana* Wall. ex Bedd. Ferns South. India t. 159. 1865.

*Distrib.* : India (Himalayas), Nepal, Bhutan, Sri Lanka, China, Java, Sumatra.

**Diplazium** Sw. Schrad. Journ. Bot. 1800 (2) : 61. 1801 ; sledge, Bull. Brit. Mus. (N. H.) Lond. Bot. 2 : 275. 1962.

Lectotype : **D. plantagineum** (L.) Sw. Schrad. Journ. Bot. 1800 (2) : 62. 1802.

**D. asperum** Bl. Enum. Pl. Jav. 195. 1828 ; Bedd. Handb. Ferns Brit. India 184. 1883 ; *Allantoidea aspera* (Bl.) Ching, Acta Phytotax. Sin. 9 : 46. 1964. *Diplazium polypodicides* Bedd. Ferns South. India t. 163. 1865. *D. sikkimense* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 500. t. 65. f. 1. 1880.

*Distrib.* : S. India, Himalayas, Sikkim, Java.

**D. bellum** (Clarke) Bir. Journ. Indian Bot. Soc. 43 : 57. 1964 ; *Asplenium bellum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 496. t. 63. f. 2. 1880.

**D. cordifolium** Bl. Enum. Pl. Jav. 190. 1828. *Athyrium cordifolium* (Bl.) Copel. Philip. Journ. Sci. 3 C. 300. 1908. *Anisogonium cordifolium* Bedd. Ferns Brit. India t. 331. 1870. Handb. Ferns Brit. India 191. t. 92. 1883.

*Distrib.* : India (Manipur), Malaya.

**D. dilatatum** Bl. Enum. Pl. Jav. 194. 1828 : *Asplenium latifolium* D. Don, Prod. Fl. Nepal 8. 1825 ; non *A. latifolium* Bory 1803 ; *Diplazium latifolium* Moore, Ind. Fil. 141. 1859 ; 331. 1861 ; Bedd. Handb. Ferns Brit. India 187. 1883. *Asplenium dilatatum* (Bl.) Hook. Sp. Fil. 3 : 258. 1860. *A. maximum sensu* Hook. & Bak. Syn. Fil. 239. 1867 *pro parte* ; non *D. Don. Athyrium dilatatum* (Bl.) Holtt. Fl. Malaya 2 : 574. 1954.

*Distrib.* : India (South and East North India), China, Indo-China, Burma, Malaya, Philippines, N. Australia.

**D. donianum** (Mett.) Tard. Aspl. du. Tonkin 58. t. 5. 1932. *Asplenium donianum* Mett. Aspl. 177. no. 198b. 1859. *Diplazium fraxinifolium sensu* Bedd. Ferns Brit. India t. 59. 1865.

*Distrib.* : North-East India to China, Malay Peninsula, Malesian Islands.

**D. esculentum** (Retz.) Sw. Schrad. Journ. Bot. 1801 (1) : 312. 1803 ; *Hemionitis esculenta* Retz. Obs. Bot. 6 : 38. 1791. *Anisogonium esculentum* (Retz.) Presl, Tent. Pterid. 116. 1836 ; Bedd. Handb. Ferns Brit. India 192. 1883. *Callipteris esculenta* (Retz.) J. Sm. apud Houlst. & Moore in Gard. Mag. Bot. 3 : 265. 1851 ; Bedd. Ferns South. India 54. t. 164. 1865.

*Distrib.* : Throughout India, China, Formosa, Malayasia east to Philippines, New Guinea, Samoa.

**D. fieldingianum** (Kunze) Panigr. Phytologia 31 (3) : 251. 1975. *Allantodia fieldingiana* Kunze, Linnaea 24 : 268. 1851. *Asplenium polymorpha* Wall. List. no. 230. 1828 (*nom. nud.*) *A. polypodioides* auct. Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 511. 1880 (*pro parte quoad*) *Asplenium (Diplazium) latifolium* D. Don var. *polymorpha* (Wall. ex Mett.) Hope, Jour. Asiatic Soc. Bengal 57 : 307. t. 17. 1888.

*Distrib.* : India (N.W. Himalayas), Nepal, Bhutan, China, Pakistan.

**D. frondosum** (Clarke) Christ. Not. Syst. Lacombe. 1 : 46. 1909 ; Panigr. Phytologia 24 : 252. 1975. *Asplenium latifolium* D. Don var. *frondosa* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 503. 1880.

*Distrib.* : N.E. India, Sikkim, China, Pakistan, Nepal.

**D. giganteum** (Bak.) Ching in C. Chr. Ind. Fil. Suppl. 3 : 73. 1934. *Gynogramme gigantea* Bak. in Journ. Bot. 27 : 177. 1889.

*Distrib.* : Himalayas to C. China.

**D. himalayense** (Ching) Panigr. Phytologia 31 (3) : 254. 1975. *Allantodia himalayense* Ching, Acta Phytotax. Sin. 9 : 55. 1964. *Asplenium polypodioides* Mett. var. *vestita* Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 501. 1880.

*Distrib.* : North-East India, Sikkim.

**D. himalayense** var. **effusior** (Clarke) Panigr. Phytologia 31(3) : 254. 1975. *Asplenium polypodioides* var. *effusior* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 501. 1880. *Diplazium umbrosum* var. *multicaudatum* (Bedd.) Bedd. Handb. Ferns Brit. India 186. 1883 (*pro parte*), quoad. var. *effusior* Clarke, Syn. *tantum non Asplenium multicaudatum* (Clarke) Bak. 1880.

*Distrib.* : India (Sikkim), Nepal.

**D. hirsutipes** (Bedd.) Nayar et Kaur, Comp to Bedd. Handb. Ferns Brit. India 44. 1974. *D. stoliczkae* var. *hirsutipes* Bedd. Handb. Ferns Brit. India 182. 1883.

*Distrib.* : India (Himalayas), Nepal to Bhutan.

**D. lasiopteris** Kunze. Linnaea 27 : 568. 1843 ; Bedd. Ferns South India 53. t. 160. 1864. *D. thwaitesii* (A Braun ex Mett.) Kletzsch ex Moore, Ind. Fil. 339. 1862 ; Bedd. Ferns Brit. India t. 291. 1868. *D. japonicum sensu* Bedd. Handb. Ferns Brit. India 180. 1883 (*pro parte.*) *non* Bedd. 1876, *nec Asplenium japonicum* Thunb.

*Distrib.* : S. India, Sri Lanka.

**D. lobulosum** (Wall. ex Mett.) Presl, Tent. Pterid. 114. 1836. *Asplenium lobulosum* Wall. ex Mett. Aspl. 163 n. 170. 1859. *A. longifolium* D. Don, Prod. Fl. Nepal 7. 1825. *Diplazium longifolium* (D. Don) Moore, Ind. Fil. 141. 332. 1859 ; Bedd. Ferns Brit. India t. 247. 1865 ; Handb. Ferns Brit. India 179. t. 87. 1883.

*Distrib.* : India (N. W. Himalayas), Nepal.

**D. muricatum** (Mett.) v.A.v.R., Malayan Ferns 829. 1909; *Asplenium muricatum* Mett. Ann. Mus. Bot. Lugd.-Bat. 2 : 239. 1866. *Asplenium procerum* (Hook. & Bak.) Wall. ex Clarke, Trans. Linn. Soc. Lond. II Bot. I. 495. 1880. *non A. procerum* Bernh. 1802. *D. umbrosum* var. *australe* Bedd. Handb. Ferns Brit. India 189. 1883 (*pro parte*), *non Allantoidea australis* R. Br. *D. umbrosum* var. *procerum* (Hook. & Bak.) Bedd. Ferns Brit. India 189. 1883.

*Distrib.* : S. India and E. India, Burma Nepal, Siam, Formosa, Java.

**D. pin-faense** Ching, Lingnan Sci. Journ. 15(2) : 279. 1936 ; Dixit & Ghosh, Bull. Bot. Surv. India 20 (1-4) : 160. f. 1-3. 1976. *Athyrium pin-faense* (Ching) Ohwi, Nat. Sci. Mus. Tokyo 3 : 100. 1956.

*Distrib.* : Eastern India, China, Japan.

**D. pinnatifido-pinnatum** (Hook.) Moore, Ind. Fil. 334. 1861. *Asplenium pinnatifido-pinnatum* Hook. Sp. Fil. 3 : 238. 1860.

*Distrib.* : India.

**D. polypodioides** Bl. Enum. Pl. Jav. 194. 1828 ; Bedd. Ferns South. India 54. t. 163. 1864 ; Ferns Brit. India t. 293. 1868 ; Handb. Ferns Brit. India 184. 1883.

*Distrib.* : South India, Sri Lanka, East Indies, Philippines.

**D. polypodioides** var. **brachylobum** Sledge, Bull. Brit. Mus. (N.H.) London Bot. 2 : 307. 1962.

*Distrib.* : S. India, Sri Lanka.

**D. simplicivenium** Holtt. Gard. Bull. Str. Settl. 11 : 100. f. 6. 1940 ; Mehra and Bir, Res. Bull. (N.S.) Punjab Univ. 15 : 147. 1964. *Athyrium simplicivenium* (Holtt). Holtt. Rev. Fl. Malaya 2 : 573. 1954.

*Distrib.* : India (Sikkim), Malaya Peninsula.

**D. spectabile** (Wall. ex Mett.) Ching, Lingnan Sci. Journ. 15 : 278. 1936. *Asplenium spectabile* Wall. ex Mett. Aspl. 196 no. 240. 1859. *Diplazium umbrosum* var. *multicaudatum* (Wall. ex Clarke) Bedd. Handb. Ferns Brit. India 190 t. 1883. *Asplenium multicaudatum* Wall. ex Clarke, Trans. Linn. Soc. Lond. II. Bot. I : 502. 1880. *Diplazium jerdoni* Bedd. Ferns Brit. India t. 327. 1869.

*Distrib.* : India (Himalayas from Nepal to Bhutan, Meghalaya) Bangladesh.

**D. squamigerum** (Mett.) Christ, Bull. Soc. Fr. 52. Mem. 1 : 51. 1905. *Asplenium squamigerum* Mett. Ann. Lugd. Bat. 2 : 239. 1866 ; Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 245. 1902.

*Distrib.* : India (Kashmir), China, Japan.

**D. stenochlamys** C. Chr. Ind. Fil. 240. 1905 ; Mehra and Bir, Res. Bull. (N.S.) Punjab Univ. 15 : 147. 1964. *Asplenium platyphyllum* Bak. Journ. Bot. 1890 : 264. 1890. (non J. Sm. 1841 ; Mett. 1859).

*Distrib.* : Eastern Himalayas, Tonkin.

**D. stoliczkae** Bedd. Ferns Brit. India Suppl. 13. t. 361. 1876 ; Handb. Ferns Brit. India 182. 1883.

*Distrib.* : India (N. India, Meghalaya).

**D. subsinuatatum** (Hook. & Grev.) Tagawa, Coll. III. Jap. Pterid. 203. 1959 ; *Asplenium subsinuatatum* Hook. & Grev. Icon. Fil. 1 : t. 27. 1827.

**D. succulentum** (Clarke). C. Chr. Ind : Fil. 240. 1905. *Asplenium succulentum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 502. t. 64. f. 4. 1880.

*Distrib.* : India (Eastern Himalayas).

**D. sylvaticum** (Bory) Sw. Syn. Fil. 92. 1806. Bedd. Handb. Ferns Brit. India 177. 1883. *Callipteris sylvaticum* Bory. Voy. Mars. Afr. 1 : 282. 1804. *Asplenium sylvaticum* (Bory) Presl. Rel. Haenk. 1 : 42. 1825 ; Bedd. Ferns South. India t. 161. 1865.

*Distrib.* : South India, Burma, Sri Lanka, Malaya Peninsula, Mauritius, Fernando Po, Java, Borneo, Philippines.

**D. speciosum** Bl. Enum, Pl. Jav. 193. 1828 ; Bedd. Handb. Ferns Brit. India 178. 1883. *Asplenium acuminatum* Wall. ex Bedd. Ferns Brit. India t. 290. 1868.

*Distrib.* : South India, Malay Peninsula.

**D. torrentium** (Clarke) Tard. – Blot. Aspl. du. Tonkin 69. 1932 ; Mehra and Bir, Res. Bull. N.S.) Punjab Univ. 15 : 147. 1964. *Asplenium torrentium* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 500 t. 54. (excl. f. 2) 1880.

*Distrib.* : India (Sikkim).

**D. travancoricum** Bedd. Handb. 188. 1883 ; Sledge Bull. Brit. Mus. (N.H.) London 2 : 305. 1962.

*Distrib.* : S. India (Travancore Hills), Sri Lanka.

**D. viridissimum** Christ, Not. Syst. 1 : 45. 1909. Mehra and Bir, Res. Bull. (N.S.) Punjab Univ. 15 : 147. 1964. *Athyrium macrosorum* Copel. Leaflet Philip. Bot. 3 : 815. 1910.

*Distrib.* : India (Sikkim), China.

**Dryothyrium** Ching, Bull. Fan Mem. Inst. Biol. Bot. 11 : 79. 1941.

Type : **D. boryanum** (Willd.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 11 : 81. 1941.

**D. boryanum** (Willd.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 11 : 81. 1941. *Aspidium boryanum* Willd. in Linn. Sp. Pl. 5 : 285. 1810. *Lastrea divisa* (Hook.) Bedd. Ferns South. India 35. t. 97. 1863. *Polypodium subtripinnatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 545. 1880. *Phegopteris kingii* Bedd. Handb. Ferns Brit. India Suppl. 84. 1892. *Lastrea boryana* (Willd.) Moore, Ind. Fil. 86. 1859 ; Bedd. Handb. Ferns Brit. India 266. 1883.

*Distrib.* : India (Himalayas, S. India), East Africa to tropical Asia.

**Gymnocarpium** Newm. Phytol. 4 : 321. 1821.

Lectotype : **G. dryopteris** (L.) Newm. Phytol. 4 : 371. 1851.

**G. dryopteris** (L.) Newm. Phytol. 4 : 371. 1851. *Polypodium dry-*

*opteris* L. Sp. Pl. 2 : 1053 ; Bedd. Ferns Brit. India t. 74. 1865. *Phegopteris dryoptesis* (L.) Bedd. Handb. Ferns Brit. India 293. 1883.

*Distrib.* : India (N. W. Himalayas) Arctic and Alpine Europe, Asia and America.

**Kuniwatsukia** Pic. Ser. Webbia 28 : 455. 1975.

Type : *K. cuspidata* (Bedd.) Pic. Ser. Webbia 28 : 455. 1973.

*K. cuspidata* (Bedd.) Pic. Ser. Webbia 28 : 454. 1973. *Lasterea cuspidata* Bedd. Ferns Brit. India 2 : III, IV et correct. 348. 1870 ; Handb. Ferns Brit. India 232. t. 119. 1883. *Polypodium elongatum* Wall. ex Hook. Sp. Fil. 4 : 234. 1862 ; Bedd. Ferns Brit. India t. 118. 1865. *Microchlaena cuspidata* (Bedd.) Ching, Acta Phytotax. Sin. 9 : 99. 1964.

*Distrib.* : India (Himalayas), S.W. China, Nepal, Burma.

**Lunathyrium** Koidz. Acta Phytotax. Geobot. 1 : 30. 1932.

Type : *L. pycnosorum* (Christ) Koidz. Acta Phytotax. Geobot. 1 : 31. 1932.

*L. allantoides* (Bedd.) Ching, Acta Phytotax. Sin. 9 : 72. 1964. *Athyrium allantoides* Bedd. Ferns Brit. India t. 221. 1867. *A. thelypteroides* (Michx.) Desv. Prod. 226. 1827 ; Bedd. Handb. Ferns Brit. India 164. 1883. *Asplenium thelypteroides* Michx. Fl. bor. Arn. 2 : 265. 1803 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 488. 1880.

*Distrib.* : Himalayas from Kashmir to Bhutan, N. America, Canada, Amurland.

**L. japonicum** (Thunb.) Kurata, Journ. Geobot. 9 : 99. 1961. *Asplenium japonicum* Thunb. Fl. Jap. 334. 1784. *Athyrium japonicum* (Thunb.) Copel. Philip. Journ. Sci. 3C : 290. 1908. *Diplazium japonicum* (Thunb.) Bedd. Ferns Brit. India Suppl. 12. 1876 ; Handb. Ferns Brit. India 180. 1883. *D. decussatum* Bedd. Ferns Brit. India 292. t. 1868.

*Distrib.* : India (S. India, N.W. Himalayas), China, Japan, Malaya Peninsula, Polynesia.

**Triblemma** (J. Sm.) Ching, Acta Bot. Sin. 11 : 24. 1978.

Type : *T. lancea* (Thunb.) Ching, Acta Bot. Sin. 11. 24. 1978.

*T. lancea* (Thunb.) Ching, Acta Bot. Sin. 11 ; 24. 1978. *Asplenium lanceum* Thunb. Fl. Jap. 333. 1784. *Diplazium lanceum* (Thunb.) Presl, Tent. Pterid. 113. 1836 ; Bedd. Ferns South. India t. 227. 1867 ; Handb. Ferns Brit. India 174. t. 84. 1883.

*Distrib.* : E. India, Bangladesh, Nepal, China, Formosa, Japan, Indo-China.

## HYPODEMATAEAE Ching

**Hypodematuim** Kunze, Fl. 1833 (2) : 690. 1833.

Type : **H. crenatum** (Forsk.) Kuhn, v. Deck. Reis. 3 (3) : 37. 1879.

**H. crenatum** (Forsk.) Kuhn, v. Deck. Reis. 3 (3) : 37. 1879. *Polypodium crenatum* Forsk, Fl. Aég. arab. 185. 1775. *Lastrea crenata* Bedd. Ferns Brit. India Suppl. 18. 1876 ; Handb. Ferns Brit. India 258. 1883. *L. eriocarpa* Presl, Tent. Pterid. 77. 1836 ; Bedd. Ferns South. India t. 95. 1863.

*Distrib.* : India (Himalayas, S. India), Sri Lanka, Trop. Africa, Mauritius, China, Malay Peninsula.

## ASPIDIACEAE Mett. ex Frank

**Acrorumohra** (Ito) Ito in Nakai et Honda, Nov. Fl. Jap. 4 : 101. 1939.

Type : **A. diffracta** (Bak.) Ito in Nakai et Honda, Nov. Fl. Jap. 4 : 101. 1939.

**A. diffracta** (Bak.) Ito in Nakai et Honda, Nov. Fl. Jap. 4 : 101. 1939. *Nephrodium diffractum* Bak. Kew Bull. 230. 1898.

*Distrib.* : Eastern Himalayas, Southern Asia.

**Ctenitis** (C. Chr.) C. Chr. ex Tard. et. C. Chr. Notul. Syst. Paris 7 : 186. 1938 ; Ching, Bull. Fan Mem. Inst. Biol. 8 : 275. 1938.

Lectotype : **C. submarginalis** (Langsd. et Fisch.) Ching, Sunyat. 5 : 250. 1940.

**C. apiciflora** (Wall. ex Mett.) Ching, Bull. Fan Mem. Inst. Biol. 8 : 284. 1938. *Aspidium apiciflorum* Wall ex Mett. Farngatt Pheg. et. Aspid. 54. no. 128. 1858. *Lastrea filix-mas* var. *patentissiima* subvar. *apiciflora* Bedd. Handb. Ferns Brit, India 249. 1883.

*Distrib.* : Himalayas, Nepal, Bhutan, China.

**C. clarkei** (Bak.) Ching, Bull. Fan Mem. Inst. Biol. 8 : 287. 1938. *Nephrodium clarkei* Bak. Hook. et. Bak. Syn. Fil. 497. 1874. *Lastrea filix-mas* var. *clarkei* Bedd. Ferns Brit. India Suppl. 17. 1876.

*Distrib.* : India (Himalayas), China, Burma, Sikkim.



**C. ferruginea** (Bedd.) Ching, Bull. Fan Mem. Inst. Biol. 8 : 296. 1938. *Lastrea ferruginea* Bedd. Ferns South. India t. 100. 1865 ; Handb. Ferns Brit. India 284. t. 136. 1883.

*Distrib.* : S. India, Sri Lanka.

**C. hendersonii** (Bedd.) H. Ito ex Nakai et Honda, Nov. Fl. Japan 4 : 89. t. 5. (106), 10 : 212, 14 : 311. to 18 : 423. 1939. *Lastrea hendersonii* Bedd. Ferns Brit. India Suppl. t. 377. 1876. *L. spectabilis* Bedd. Handb. Ferns Brit. India 257. 1883.

*Distrib.* : India (Meghalaya), Nepal.

**C. manii** (Hope) Ching, Bull. Fan Mem. Inst. Biol. 8 : 289. 1938. *Nephrodium manii* Hope, Journ. Bot. 145. 1890. *Lastrea intermedia* Bedd. Ferns Brit. India Corr. II. 1870 ; Handb. Ferns Brit. India Suppl. 61. 1892 (*pro parte*).

*Distrib.* : India, Malaya Peninsula, Java, Philippines, Borneo.

**C. nidus** (Clark), Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 287. 1938 ; *Nephrodium nidus* Clarke, Journ. Linn. Soc. 15 : 156. 1876. *N. apiciflorum* var. *nidus* (Clarke) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 518. 1880. *Lastrea filix-mas* var. *nidus* Bedd. Ferns Brit. India Suppl. 171. t. 372. 1876. *L. filix-mas* var. *parallelogramma* subvar. *nidus* Bedd. Handb. Ferns Brit. India t. 249. t. 129. 1883.

*Distrib.* : India (Himalayas, Sikkim), China.

**C. obtusiloba** (Bak. ex Hook. et Bak.) Ching, Bull. Fan Mem. Inst. Biol. 8 : 296. 1938. *Nephrodium obtusilobum* Bak. ex Hook. et. Bak. Syn. Fil. 284. 1867. *Lastrea obtusiloba* Bedd. Ferns Brit. India t. 296. 1868.

*Distrib.* : S. India, Sri Lanka.

**C. rhodolepis** (Clarke) Ching, Bull. Fan Mem. Inst. Biol. 8 : 300. 1938. *Nephrodium rhodolepis* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 526. t. 72. 1880. *Lastrea intermedia* var. *Y. rhodolepis* (Clarke) Bedd. Handb. Ferns Brit. India Suppl. 62. 1892. *L. blumei* Bedd. Ferns South. India t. 249. 1864 ; Handb. Ferns Brit. India 259. 1883. *L. intermedia* var. *blumei* Bedd. Handb. Suppl. 61. 1892.

*Distrib.* : Himalayas, Sri Lanka, Bangladesh, China, Japan, Formosa, Fiji, Samoa, Philippines.

**C. scabrosa** (Kunze) Ching, Bull. Fan Mem. Inst. Biol. 8 : 292. 1938. *Aspidium scabrosum* Kunze, Linnaea 24 : 286. 1856. *Lastrea scabrosa* Moore. Ind. Fil. 103. 1858 ; Bedd. Handb. Ferns Brit. India 263. t. 125. 1883. *Polypodium nigrocarpum* Bedd. Ferns South. India t. 169. 1865.

*Distrib.* : S. India.

**Ctenitopsis** Ching ex Tard. et. C. Chr. Notul. Syst. Paris 7 : 86. 1938 ; Ching. Bull. Fan Mem. Inst. Biol. Bot. 8 : 304. 1938.

Lectotype ; **C. sagenoides** (Mett.) Ching, Bull. Fan Mem. Inst. Biol. 8 : 312. 1938.

**C. dissecta** (G. Forst.) Ching, Bull. Fan Mem. Inst. Biol. 8 : 321. 1938. *Polypodium dissectum* G. Forst. Prod. 81. 1786. *Lastrea dissecta* (G. Forst.) Bedd. Handb. Ferns Brit. India 260. 1883. *L. membranifolia* Bedd. Ferns South. India t. 102. 1865.

*Distrib.* : S. India, Sri Lanka, Burma, Malay Islands, Polynesia.

**C. fuscipes** (Wall. ex Bedd.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 313. 1938. *Aspidium fuscipes* Wall. List. no. 361. (*ex-parte*), 1827 (*nom. nud.*) ex Bedd. Ferns Brit. India Suppl. 15. t. 366. 1876. *Lastrea fuscipes* Moore, Ind. Fil. 82. 1858 ; Bedd. Handb. Ferns Brit. India 243. 1883 (*pro parte*) *Tectaria fuscipes* C. Chr. Contr. U. S. Nat. Herb. 26 : 290. 1931. *Nephrodium membranifolium* Hook. Sp. Fil. 131. t. 261. 1862 (*pro parte*) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 534. 1880. *N. membranifolium* var. *typica* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 534 t. 75 A. 1880. *N. membranifolium* var. *dimorphous* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 534. t. 75 BC. 1880. *Aspidium membranifolium* Bedd. Handb. Ferns Brit. India 225. 1883. Suppl. 48. 1892 (*excl. syn.*)

*Distrib.* : India (Eastern India and Eastern Himalayas), Burma, Annam.

**C. ingens** (Atk. ex Clarke), Ching, Bull. Fan Mem. Inst. Biol. 8 : 320. 1938. *Nephrodium ingens* Atk. ex Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 526. t. 73. 1880. *Lastrea dissecta* var. *ingens* (Atk. ex Clarke). Bedd. Handb. Ferns Brit. India 261. 1883.

*Distrib.* : India (Himalayas), Bhutan.

**C. sagenoides** (Mett.) Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 312. 1938. *Aspidium sagenoides* Mett. Farngatt. Pheg. u. Aspid. 139. n. 269. 1858. *Lastrea melanopus* Bedd. Ferns Brit. India t. 38. 1865. *L. fuscipes* Bedd. Handb. Ferns Brit. India 261. 1883 (*pro parte*).

*Distrib.* : India (Eastern India & Eastern Himalayas), Burma, Siam, China, Cochin-China, Malaya & its islands, Java, Sumatra, Philippine Islands.

**Cyrtomium** Presl, Tent. Pterid. 84. t. 2. f. 19. 1836 ; C. Chr. Amer. Fern. Journ. 20 (2) : 41. 1930.

Lectotype : *C. falcatum* (L. f.) Presl, Tent. Pterid. 86. 1836.

**C. caryotideum** (Wall. ex Hook. et Grev.) Presl, Tent. Pterid. 86. t. 2. f. 26. 1836 ; Bedd. Ferns South. India t. 119. 1865. *Aspidium caryotideum* Wall. List. No. 376. 1828 (*nom. nud.*) ex Hook. et Grev. Icon. Fil. t. 69. 1828. *Cyrtomium falcatum* var. *caryotideum* (Wall. ex Hook. et Grev.) Bedd. Handb. Ferns Brit. India 211. t. 106. 1883. *Aspidium falcatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 512. 1880 (*pro parte*).

*Distrib.* : Mountainous regions of India. Nepal, Bhutan, Sri Lanka, China, Japan, S. Africa, Sandwich Islands, Madagascar.

**C. falcatum** (L. f.) Presl, Tent. Pterid. 86. 1836 ; Bedd. Handb. Ferns Brit. India 211. 1883; C. Chr. Amer. Fern. Journ. 20: 47. 1930. *Polypodium falcatum* L. f. Suppl. Sp. Pl. 466. 1781.

*Distrib.* : Himalayas, China, Japan. Formosa, Asia.

**C. fortunei** J. Sm. Ferns Brit. & For. 286. 1866.

*Distrib.* : Himalayas, China, Japan.

**C. hookerianum** (Presl) C. Chr. Ind. Fil. Suppl. 1 : 101. 1913. *Lastrea hookeriana* Presl, Tent. Pterid. 77. 1836. *Aspidium caducum* wall. ex. Hook. et Grev. Icon. Fil. t. 171. 1829. (non H B K 1815). *Cyrtomium caducum* (Wall. ex Hook. et Grev.) Moore, Ind. Fil. 276. 1861 ; Bedd. Ferns Brit. India t. 45. 1865 ; Handb. Ferns Brit. India 211. 1883.

*Distrib.* : India (Himalayas), China, Japan, Australia.

**C. macrophyllum** (Makino) Tagawa, Acta Phytotax. Geobot. 3 62. 1936. *Aspidium falcatum* var. *macrophyllum* Makino, Bot. Mag. Tokyo 16 : 90. 1902.

*Distrib.* : Himalayas, China, Japan.

**Didymochlaena** Desv. Gen. Naturf. Freunde. Berlin Mag. 5 : 303. 1811.

Type : *D. sinuata* Desv. Ges. Naturf. Freunde Berlin Mag. 5 : 303. t. 7. f. 6. 1811.

**D. truncatula** (Sw.) J. Sm. Journ. Bot. 4 : 196. 1841. *Aspidium truncatulum* Sw. Schrad. Journ. Bot. 1800 (2) : 36. 1801. *Didymochlaena lunulata sensu* Bedd. Ferns Brit. India t. 15. 1865 ; Handb. Ferns Brit. India 199. t. 99. 1883 ; Suppl. 42. 1892.

*Distrib.* : E. India, Burma, Malaya Peninsula, Tropical America, East African Islands ; Malay Islands, Fiji.

**Lastreopsis** Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 161. 1938.

Type : *L. tenera* (R. Br.) Tindale, Vict. Nat. 73 : 181. 1957.

*L. tenera* (R. Br.) Tindale, Vict. Nat. 73 : 181. 1957. *Nephrodium tenerum* R. Br. Prod. Fl. Nov. Holl. 149. 1819. *Lastrea recedens* J. Sm. ex Moore. Gard. Chron. 708. 1855 ; Bedd. Fern South. India t. 98. 1865 (*pro parte*) ; Handb. Ferns Brit. India 260. 1883.

*Distrib.* : S. India, Sri Lanka, Philippines.

*L. wattii* (Bedd.) Tagawa, Journ. Jap. Bot. 22 : 163. 1949. *Lastrea wattii* Bedd. Handb. Ferns Brit. India Suppl. 49. 1892.

*Distrib.* : India (Manipur).

**Pleocnemia** Presl, Tent. Pterid. 183. 1836.

Type : *P. leuzeana* (Gaud.) Presl, Tent. Pterid. 184. t. 7. f. 12. 1836.

*P. winitii* Hoitt. Reinw. 1 : 181. 1951. *P. leuzeana sensu* Bedd. Handb. Ferns. Brit. India 228. 1883 (*descr. pro parte, excl. t. 117*).

*Distrib.* : India (Assam) Thailand, Annam, China.

**Pteridrys** C. Chr. et. Ching, Bull. Fan Mem. Inst. Biol. 5 : 129. 1934.

Type : *P. syrmatia* (Willd.) C. Chr. et Ching, Bull. Fan Mem. Inst. Biol. Bot. 5 : 131. t. 11, 17. 1934.

*P. cnemidaria* (Christ) C. Chr. et. Ching, Bull. Fan Mem. Inst. Biol. Bot. 5 : 136. t. 12, 18. (8-9), 20 (19). 1934. *Dryopteris cnemidaria* Christ, Bull. Acad. Geogr. Bot. 140. 1910. *Nephrodium syrmatium* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 ; 518. 1880. (*pro parte*).

*Distrib.* : India (Assam, Sikkim), Burma, China, Bhutan, Cochin-China.

*P. zeylanica* Ching ex C. Chr. et Ching, Bull. Fan Mem. Inst. Biol. Bot. 5 : 135. t. 20 f. 16-18. 1934. *Loatrea spectabilis* Bedd. Ferns South. India t. 108. 1863. *Nephrodium syrmatium sensu* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 519. 1880. *Lastrea syrmatium sensu* Bedd. Handb. Ferns. Brit. India 243. 1883.

*Distrib.* : India (Assam, South India), Sri Lanka.

**Quercifilix** Copel. Phillip Journ. Sci. 37 : 408. 1928.

Type : **Q. Zeylanica** (Houtt.) Copel. Philip. Journ. Sci. 37 : 408. 1928.

**Q. Zeylanica** (Houtt.) Copel. Philip. Journ. Sei. 37 : 408. 1928.  
*Ophioglossum Zeylanicum* Houtt. Nat. Hist. 14 : 43. 1783.

*Distrib.* : South India, Sri Lanka, Malesia to Polynesia, China.

**Tectaria** Cav. Anales. Hist. Nat. 1 (2) : 115. 1799 ; Ching, Sinensia 2 (2) : 9. 1931.

Type : **T. trifoliatum** (L.) Cav. Descr. 249. 1802.

**T. artinexa** (Clarke) Ching, Sinensia 2 : 15. 1931. *Nephrodium artinexum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 536. 1880. *Pleocnemia clarkei* Bedd. Ferns Brit India, Suppl. 15. t. 368. 1876 ; Handb. Ferns Brit. India 227. 1883.

*Disirib.* : India (Eastern Himalayas).

**T. chattagramica** (Clarke) Ching, Sinensia 2 (2) : 35. 1931. *Polypodium chattagramicum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1. 594. t. 81. 1880. *Dictyopteris chattagramica* Bedd. Handb. Ferns Brit. India 255. t. 155. 1883.

*Distrib.* : India (Meghalayas), Bangladesh, Burma.

**T. cicutaria** (L.) Copel. Philip. Journ. Sci. 2C. 410. 1907. *Polypodium cicutarium* L. Syst. Nat. ed. x. 2 : 1326. 1759. *Aspidium cicutarium* (L.) Sw. Schrad. Journ. 1800 (2) : 36. 1801 ; Bedd. Handb. Ferns Brit. India 221. 1883. *Sagenia coadunata* J. Sm. Journ. Bot. 4 : 1841 ; Bedd. Ferns South. India t. 81. 1863.

*Distrib.* : Throughout the Indian region from the planis upto 5000 ft. also tropics throughout the world.

**T. coadunata** (Wall. ex Hook. et Grev.) C. Chr. in Contr. U. S. Nat. Herb. 26 : 331. 1931. *Aspidium coadunatum* Wall. ex Hook. et Grev. Icon. Fil. 2 : 202. 1831. *Sagenia variolosa* Bedd. Ferns South. India t. 170. 1823. *S. gigantea* Bedd. Ferns South. India t. 80. 1863. *S. coadunata sensu* Bedd. Ferns South. India t. 81. 1863. *Nephrodium cicutarium* Hook. & Bak. Syn. Fil. 299. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 532. 1880. *N. cicutarium* var. *coadunatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 540. 1880.

**T. decurrens** (Presl) Copel. Elmers Leaflets Philip. Journ. Bot. 1 : 234. 1907. *Aspidium decurrens* Presl, Rel. Haenk. 1 : 28. 1825 ; Bedd. Ferns South. India t. 245. 1870 ; Handb. Ferns Brit. India 219. 1883. *Sagenia pteropus* Moore, Ind. Fil. 89. 1858 ; Bedd. Ferns South. India t. 82. 1863. *Nephrodium decurrens* Hook & Bak. Syn. Fil. 299. 1874 ; Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 339. 1880.

*Distrib.* : Eastern to Southern India, Sri Lanka, China, Malay Peninsula, Malay Islands, Polynesia, Formosa, Bangladesh.

**T. dubia** (Clarke et Bak.) Ching, Sinensia 2 : 23. 1931. *Nephrodium cicutarium* var. *dubia* Clarke et Bak. Journ. Linn. Soc. 24 : 417. 1888. *Aspidium dubium* Bedd. Handb. Ferns Brit. India Suppl. 47. 1892.

*Distrib.* : India (Assam).

**T. gigantea** (Bl.) Copel. Philip. Journ. Sci. Bot. 2 : 410. 1907. *Aspidium giganteum* Bl. Enum. Pl. Jav. 159. 1828.

*Distrib.* : South India, Sri Lanka, Java, Malaya.

**T. multicaudata** (Wall. ex Bedd.) Ching, Sinensia 2 (2) : 20. 1931. *Aspidium multicaudatum* Wall. ex Bedd. Handb. Ferns Brit. India 222. 1883. *Nephrodium multicaudatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 540. t. 77. 1880. *Aspidium griffithii* Bedd. Ferns Brit. India Suppl. 15. 1876. *Sagenia griffithii* Bedd. Ferns Brit. India t. 377. 1880.

*Distrib.* : South-East India, Burma, China, Formosa.

**T. heterosora** (Bak.) Ching, Sinensia 2 : 29. 1931. *Nephrodium heterosorum* Bak. in Syn. Fil. 504. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 537. 1880. *Sagenia heterosora* (Bak.) Hook. Syn. Fil. 504. 18 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 537. 1880. *S. heterocarpa* Bedd. Ferns Brit. India t. 47. 1865. *Aspidium heterocarpum* (Bedd.) Bedd. Ferns Brit. India Suppl. 16. 1876 ; Handb. Ferns Brit. India 219. 1883. *A. heterosorum* (Bak.) Bedd. Handb. Ferns Brit. India Suppl. 46. 1892.

*Distrib.* : E. India, Sikkim, Bangladesh.

**T. leuzeana** (Gaud.) Copel. Philipp. Journ. Sci. 2 C : 417. 1907. *Polypodium leuzeanum* Gaud. Freye. Voy. Bot. 361. t. 6. 1827. *Pleocnemia leuzeana* Presl, Tent. Pterid. 184. 1836 ; Bedd. Ferns Brit. India t. 134. 1886 ; Handb. Ferns Brit. India 228. 1883. *Nephrodium leuzeanum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 535. 1880.

*Distrib.* : E. India, Darjeeling & Sikkim Himalayas, Bangladesh, Burma, Malaya Peninsula, Malaya Islands, China, Polynesia, N. Australia.

**T. macrodonta** (Fée) C. Chr. Ind. Fil. Suppl. III. 181. 1934. *Sagenia*

*macrodonta* Fée. Gen. Fil. 313. t. 24 A. f. 1. 1852. *Aspidium cicutarium* (L.) Sw. Schrad. Journ. Bot. 1880. (2) : 36. 1801 ; Bedd. Handb. Ferns Brit. India 220. 1883. *Nephrodium cicutarium* Hook. & Bak. Syn. Fil. 299. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 539. 1880.

*Distrib.* : Throughout India and also tropics of the world.

**T. melanocaulis** (Bl.) Copel. philip. Journ. Sci. 2C : 416. 1907. *Aspidium mclanocaulon* Bl. Euam. Pl. Jav. 161. 1828.

*Distrib.* : India (Andaman & Niobor Islands) Malay Islands, Philippines, New Zealand.

**T. polymorpha** (Wall. ex Hook.) Copel. Philip. Journ. Sci. 2 C : 413. 1907. *Aspidium polymorphum* Wall. List. no. 382. 1828. ex Hook, Sp. Fil. 4 : 54. 1862. ; Bedd. Ferns South, India t. 116. 1865 ; Handb. Ferns Brit. India 218. 1883. *Nephrodium polymorphum* Bak. Syn. Fil. 297. 1874. *N. polymorphum* Bak. in Hook. Syn. Fil. 297. 1867 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 537. 1880. (excl. vars.). *Aspidium polymorphum* Bak. in Hook. Syn. Fil. 297. 1867 ; Clarke, Trans. Linn. Soc. Lond, II. Bot. 1 : 537. 1880. (excl. vars.). *A. polymorphum* Wall. List. no. 382. 1828 ; Bedd. Handb. Ferns Brit. India 218. 1883.

*Distrib.* : S. India, N.W. Himalayas, Bangladesh, Burma, Sri Lanka, Malay Islands, Philippines.

**T. polymorpha** var. **cuneifolia** R. Bonap. Notes pterid. 14 : 50. 1923.

*Disirib.* : India (North Andamans), S. China. Burma, Malaysia, Malay peninsula, Indonesia, philippines.

**T. simonsii** (Bedd.) Ching. Sinensia 2 : 32. 1931. *Aspidium simonsii* Bedd, Ferns Brit. India Suppl. 15 t. 367. 1876 ; Handb. Ferns Brit. India 48. 1883. *Nephrodium polymorphum* var. *simonsium* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 537. 1880.

*Distrib.* : India (Eastern & Sikkim Himalayas), Bangladesh, Bhutan.

**T. subconfluens** (Bedd.) Ching, Sinensia 2 : 27. 1931. *Aspidium subconfluens* Bedd. Ferns Brit. India Suppl. t. 364. 1876 ; Handb. Ferns Brit. India 215. t. 109. 1883. *Nephrodium subconfluens* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 536. 1880,

*Distrib.* : India (Meghalaya), China, Bangladesh.

**T. subtriphyllo** (Hook. & Arn.) Copel. Philp. Journ. Sci. Bot. 2 C : 410. 1907. *Polypodium subtriphyllo* Hook. & Arn. in Bot. Capt. Beech. Voy. 256. t. 50. 1848. *Sagenia subtriphyllo* Bedd. Ferns South. India t. 242. 1863.

*Distrib.* : South India, China, Formosa.

**T. ternifolia** (v. A. v. R.) C. Chr. Ind. Fil. suppl. III. 185. 1934. *Aspidium ternifolium* v. A. v. R. Bull. Jard. Brit. no. 11 : 3. 1913.

*Distrib.* : India (S. Andamans) Malaya, N. Sumatra.

**T. trimeni** (Bedd.) C. Chr. Ind. Fil. Suppl. 3 : 185. 1934. *Aspidium trimeni* Bedd. Handb. Ferns Brit. India 224. t. 114. 1883. *Sagenia gigantea sensu* Bedd. Ferns South. India t. 80. 1863 (*pro parte*).

*Distrib.* : S. India, Sri Lanka, Malesia.

**T. variolosa** (Wall. ex Hook.) C. Chr. Contr. U. S. Nat. Herb. 26 : 289. 1931. *Aspidium variolosum* Wall. ex Hook. Sp. Fil. 4 : 51. 1862 ; Bedd. Ferns Brit. India Suppl. t. 365. 1876, (non t. 170. 1878) ; Handb. Ferns Brit. India 216. t. 111. 1883 ; Suppl. 45. 1892. *Aspidium zollingerianum* Bedd. Ferns Brit. India t. 251. 1868.

*Distrib.* : East Bengal plains, abundant from Assam to Chittagong ; Burma, Malaya Peninsula, Formosa.

**T. vasta** (Bl.) Copel. Philip. Journ. Sci. 2 C : 411. 1907. *Aspidium vastum* Bl. Enum. Pl. Jav. 142. 1828 ; Bedd. Ferns Brit. India Suppl. 15. 1876 ; Handb. Ferns Brit. India 213. t. 108. 1883. *Nephrodium vastum* Hook. & Bak. Syn. Fil. 296. 1874 ; Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 536. 1880. *Sagenia alata* Bedd. Ferns. Brit. India t. 169. 1866.

*Distrib.* : E. India. Bangladesh. Malaya Peninsula and Malay Islands.

**T. wightii** (Clarke) Ching, Sinensia 2 : 28. 1931. *Nephrodium wightii* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 538. 1880. *Aspidium polymorphum* var. *macrocarpum* Bedd. Ferns South. India t. 177. 1865.

*Distrib.* : S. India, Assam, Bhutan.

#### PERANEMTACEAE (Presl) Ching

**Acrophorus** Presl, Tent. Pterid. 93. t. 3. f. 2 : 1836.

Type : **A. nodosus** Presl, Tent. Pterid. 94. t. 3. f. 2. 1836.

**A. paleolatus** Pic. Ser. Webbia 31 (1) : 252. 1977. *Acrophorus stipellatus* auct. *pro parte* quoad pl. asiat. (non T. Moore, 1854). *Leucostegia nodosa sensu* Bedd. Ferns Brit. India t. 93. 1865 ; Handb. Ferns Brit. India 54. t. 26. 1883 (*pro parte*).

*Distrib.* : India (Himalayas), Asia.



**Diacalpe** Bl. Enum. Pl. Jav. 241. 1828.

Type : **D. aspidioides** Bl. Enum Pl. Jav. 241. 1828.

**D. aspidioides** Bl. Enum. Pl. Jav. 241. 1828 ; Bedd. Ferns South. India t. 257. 1865 ; Handb. Ferns Brit. India 18. t. 7. 1883. *Peranema aspidioides* Bl. Enum. Pl. Jav. 241. 1828.

*Distrib.* : India (Himalayas), Nepal to Bhutan, Burma, China, Malay Islands, Philippines, New Guinea, Sri Lanka.

**Lithostegia** Ching, Sinensia 4 : 2. 1933.

Type : **L. foeniculacea** (Hook.) Ching, Sinensia 4 : 2. 1933.

**L. foeniculacea** (Hook.) Ching, Sinensia 4 : 2 : 1933. *Aspidium foeniculaceam* Hook. Sp. Fil. 4 : 36. t. 237. 1862. *Diacalpe foeniculacea* (Hook.) Clarke, Trans. Linn. Soc. Lond. II Bot. 1. 434. 1880 ; Bedd. Handb. Ferns Brit. India 18. 1883. *Lastrea foeniculacea* Bedd. Ferns Brit. India t. 36. 1865.

*Distrib.* : India (Eastern Himalayas), Burma, China.

**Peranema** D. Don, Prod. Fl. Nepal 12. 1825.

Type : **P. cyatheoides** D. Don, Prod. Fl. Nepal 12. 1825.

**P. aspidioides** (Bl.) Mett. Fil. Lechl. 2 : 33. 1850. *Diacalpe aspidioides* (Bl.) Enum. Pl. Jav. 241. 1828 ; Bedd. Handb. Ferns Brit. India 18. t. 7. 1883.

*Distrib.* : Eastern India and Eastern Himalayas, Nepal, Bhutan, Burma, Sri Lanka, Vietnam, Sumatra, Java, Borneo, New Guinea, Philippines.

**P. cyatheoides** D. Don, Prod. Fl. Nepal 12. 1825 ; Bedd Ferns South. India t. 73. 1863 ; Handb. Ferns Brit. India 22. 1883.

*Distrib.* : Himalayas and S. India, Nepal, Bhutan, Formosa.

### DRYOPTERIDACEAE (Ching) Ching

**Arachniodes** Bl. Enum. Pl. Jav. 2 : 241. 1828 ; Sledge, Bull. Brit. Mus. (N. H.) Lond. 5 : 39. 1973.

Type : **A. aspidioides** Bl. Enum Pl. Jav. 2 : 242. 1828.

**A. amabilis** (Bl.) Tindale, Contr. N. S. Wales Nation Herb. 3 : 90. 1961. *Aspidium amabile* Bl. Enum. Pl. Jav. 165. 1828. *Lastrea amabilis* Moore, Ind. Fil. 85. 1858 ; Bedd. Ferns South. India t. 109 ; Handb. Ferns Brit. India 229. 1883.

*Distrib.* : Throughout India in hilly regions, Sri Lanka, Nepal, S. China, Philippines.

**A. aristata** (Forst. f.) Tindale, Contr. N. S. Wales Nation Herb. 3 : 89. 1961. *Polypodium aristatum* Forst. Prod. 82. 1786. *Lastrea aristata* Moore, Ind. Fil. 85. 1858 ; Bedd. Ferns South. India t. 101. 1863 ; Handb. Ferns Brit. India 229. 1883. *Aspidium aristatum* Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 511. 1880. (*excl. vars.*)

*Distrib.* : S. India, Burma, Sri Lanka, China, E. Australia, Polynesia.

**A. assamica** (Kuhn) Ohwi, Journ. Jap. Bot. 37 : 76. 1962. *Aspidium assamicum* Kuhn, Linnaea 36 : 108. 1869.

*Distrib.* : India (Himalayas, Assam), Burma. China, Japan, Tonkin, Thailand.

**A. carvifolia** (Kze.) Ching, Acta Bot. Sin. 10. 256. 1962. *Aspidium carvifolium* Kze. Linnaea 24 : 292. 1851.

*Distrib.* : India (Himalayas), China.

**A. conifolia** (Moore) Ching, Acta Bot. Sin. 10 : 257. 1962. *Lastrea conifolia* Moore, Ind. Fil. LXXXVIII. 1857.

*Distrib.* : India (Eastern Himalayas,) China.

**A. nipponica** (Rosenst.) Ohwi, Jap. Bot. 37 : 76. 1962. *Polystichum nipponicum* Rosenst. in Feddes Repert. 13 : 130. 1914.

*Distrib.* : India (Himalayas), Burma, China, Japan.

**A. simulans** (Ching) Ching, Acta Bot. Sin. 10 : 259. 1962. *Rumohra simulans* Ching, Sinensia 5 : 54. t. 8, 1934.

*Distrib.* : India (Himalayas), China.

**A. speciosa** (D. Don) Ching, Acta Bot. Sin. 10 : 259. 1962. *Aspidium speciosum* D. Don, Prod. Fl. Nepal 5. 1825. *Lastrea affinis* Wall ex Bedd. Handb. Ferns Brit. India 230. 1883.

*Distrib.* : India (N.E. Himalayas), Nepal, China, Tibet.

**A. spectabilis** (Ching) Ching, Acta Bot. Sin. 10 : 259. 1962. *Rumohra spectabilis* Ching, Sinensia 5 : 58. t. 11. 1934.

*Distrib.* : India (Himalayas), W. China, Burma, Thailand.

**A. tripinnata** (Goldm.) Sledge, Bull. Brit. Mus. (N.H.) 5 : 41. 1973. *Polystichum tripinnatum* Goldm. Nova Acta Acad. Gesar. Leop. Carol. 19. Suppl. 1 : 463. 1843. *Lastrea coniifolia* sensu Bedd. Ferns Brit. India t. 261. 1868. (excl. fig., non *Aspidium coniifolium* wall. ex Mett.) ; Handb. Ferns Brit. India 230. f. 118. 1883.

*Distrib.* : South India, Java, Sarawak, Philippines.

**Dryopteris** Adanson, Fam. Pl. 2 : 20. 551. 1763 ; Ching Bull. Fan Mem. Inst. Biol. Bot. 8 : 363. 1938. *nom. cons.*

Type : **D. filix-mas** (L.) Schott, Gen. Fil. ad. t. 9. 1834.

**D. acuto-dentata** Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 432. 1938. *Nephrodium kingii* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 621. t. 9. 1899; 14 : 731. 1903 (non *Dryopteris kingii* C. Chr. 1905).

**D. angustifrons** (Moore ex Bedd.) O Kzte. Rev. Gen. Pl. 2. 812. 1891. *Lastrea angustifrons* Moore, ex Bedd. Ferns Brit. India t. 226. 1867 ; Handb Ferns Brit. India t. 262. 1883. *Nephrodium splendens* var. *angustifrons* Hook. Sp. Fil. 4 : 126. 1862. *N. angustifrons* Bak. Syn. Fil. 283. 1867.

*Distrib.* : India (Sikkim,) Nepal, China.

**D. apiciflora** (Wall. ex Mett.) O. Knutze, Rev. Gen. Pl. 2 : 812. 1891. *Aspidium apiciflorum* Wall. ex Mett. Pheg. 4. Asp. 54. n. 128. 1858. *Lastrea apiciflora* (Wall. ex Mett.) Presl, Tent. Pterid. 76. 1836 ; Bedd. Handb. Ferns Brit. India 249. 1883.

*Disirib.* : India (Himalayas), Formosa.

**D. approximata** Sledge, Bull. Brit. Mus. (NH.) Bot. 5 : 11. f. 1. 1973.

*Distrib.* : S. India, Sri Lanka.

**D. assamensis** (Hope) C. Chr. et Ching, Bull. Dept. Biol. Coll. Sci. Sun. Yatsen Univ. 6 : 4. 1933. *Lastrea filix-mas* var. *assamensis* Hope, Journ. Bot. 1890 : 327. 1890.

*Distrib.* : India (Assam).

**D. atrata** (Wall. ex Kunze) Ching, sinensia 3 : 326. 1933. *Aspidium atratum* Wall ex Kunze, Linhaea 24 ; 279. 1851. *Nephrodium gamblei* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 533, t. 7. 1895. *Dryopteris gamblei* (Hope) C. Chr. Ind. Fil. 267. 1906. *Lastrea hirtipes* Bedd. Handb. Ferns Brit. India 232. 1883 (excl. syn.) *Nephrodium hirtipes* Hook. Sp. Fil. 4 : 115. t. 249. 1862. (excl. Syn. *Asp. hiritipes* Bl.) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. I : 513. 1880 (*pro parte*).

*Distrib.* : India (Himalayas), Nepal, Sri Lanka, Burma, China, Formosa, Japan, Tibet.

**D. barbiger** (Hook.) O. Ktze. Rev. Gen. Pl. 2 : 812. 1891. *Nephrodium barbigerum* Hook. Sp. Fil. 4 : 113. 1862 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 522. 1880 *Lastrea barbiger* Moore ex Bedd. Ferns Brit. India t. 227. 1867 ; Handb. Ferns Brit. India 246. 1883. *Nephrodium barbigerum* Hook. Sp. Fil. 4 : 113. 1862 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 522. 1880. *Lastrea falconeri* Bedd. Ferns Brit. India t. 41. 1865.

*Distrib.* : India (Himalayas), China, Formosa.

**D. basiaurita** Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 405. 1938.

*Distrib.* : India (Kashmir).

**D. blanfordii** (Hope) C. Chr. Ind. Fil. 254. 1905. *Nephrodium blanfordii* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 624. t. 11. 1899. *Nephrodium remotum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 523. 1880. *Lastrea spinulosa* Bedd. Ferns Brit. India 336. 1870 (*non* Presl 1836). *Lastrea spinulosa* var. *remota* (Clarke) Bedd. Handb. Ferns Brit. India 252. 1883 ; Suppl. 59. 1892.

*Distrib.* : India (North-West to Darjeeling Himalayas).

**D. chingii** Nair, Indian For. 94 : 169. 1968. *Nephrodium filix-mas* (L.) Rieh. var. *fibrillosa* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 520. t. 70. 1880. *Dryopteris fibrillosa* (Clarke) Hand-Mazz. Akad. Anz. Akad. Wien. no 72. 1922, (*non* Christ 1905.) ; 15 : 131. 1964. *Lastrea filix-mas* (L.) Presl var. *parallelogramme* (Kunze) Hook. Subvar. *fibrillosa* (Clarke) Bedd. Handb. Ferns Brit. India 250. 1883.

*Distrib.* : India (North-West Himalayas).

**D. chrysocoma** (Christ) C. Chr. Ind. Fil. 257. 1905. *Aspidium filix-mas* var. *chrysocoma* Christ, Bull. Herb. Boiss. 6 : 966. 1898. *A. chrysocoma* Christ, Bull. Acad. Géogr. Bot. II : 253. 1902. *Nephrodium filix-mas* var. *schimperiana* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 ; 520. t. 69. f. 2. 1880. *Lastrea intermedia* Bedd. Ferns, South. India t. 113. 1863 (*non* presl, 1836). *L. filix-mas* var. *elongata* Bedd. Handb. Ferns Brit. India 250. 1883 (*pro parte*). *L. filix-mas* var. *schimperiana* Bedd. Handb. Ferns Brit. India Suppl. 58. 1892. *Nephrodium schimperianum* Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 733. 1903 (*non* *Aspidium* Hochst. 1841).

*Distrib.* : India (Himalayas, South India), China, Nepal, Bhutan.

**D. chrysocoma** (Christ). C. Chr. var. **major** Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 438. 1938.

*Distrib.* : India (North-West Himalayas), China.

**D. Clarkei** (Bak.) O. Ktze, Rev. Gen. Pl. 2 : 812. 1891. *Nephrodium Clarkei* Bak. Syn. Fil. 497. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 518. 1880. *Lastrea filix-mas*<sup>1</sup> var. *clarkei* Bedd. Ferns Brit. India Suppl. 17. t. 371. 1876 ; Handb. Ferns Brit. India 250. 1883.

*Distrib.* : India (Sikkim).

**D. cochleata** (D. Don.) C. Chr. Ind. Fil. 258. 1905. *Nephrodium cochleatum* D. Don, Prod. Fl. Nepal 6. 1825 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 521. 1880. *Lastrea filix-mas* Presl. var. *S. cochleata* (D. Don.) Bedd. Handb. Ferns Brit. India 250. 1883.

*Distrib.* : India (Himalayas), Burma, Malaya Peninsula, China, Tonkin, Nepal.

**D. costalisora** Tagawa, Act. Phytotax. Geobot. 3 : 88. 1934.

*Distrib.* : India (Himalayas), Formosa

**D. deparioides** (More) O. Ktze. Rev. Gen. Pl. 2 : 812. 1891. *Diclisodon deparioides* Moore, Ind. Fil. XCVI. 1857. *Lastrea deparioides* Bedd. Ferns South. India 104. 1865 ; Handb. Ferns Brit. India 257. 1883.

*Distrib.* : S. India, Sri Lanka, Australia.

**D. deparioides** (Moore) Ktze, var. **concinna** C. Chr. Ind. Fil. Suppl. 3 : 84. 1934 ; *Lastrea concinna* Bedd. Ferns Brit. India t. 207. 1864 (*non L. concinna* (Willd.) Moore).

*Distrib.* : S. India, Sri Lanka.

**D. filix-mas** (L.) Schott, Gen. Fil. ad. t. 9. 1834. *Polypodium filix-mas* L. sp. pl. 2 : 1090. 1753. *Lastrea filix-mas* Presl, Tent. Pterid. 76. 1836.

*Distrib.* : Cosmopolitan.

**D. filix-mas** var. **kingii** C. Chr. Ind. Fil. 265. 1905,

*Distrib.* : North-West Himalayas, Sikkim, Tibet.

**D. fructuosa** (Christ) C. Chr. Ind. Fil. 267. 1905. *Aspidium varium* var. *fructuosum* Christ, Bull. Soc. Fr. 52. Mem. 1 : 38. 1905.

*Distrib.* : India (Sikkim), China (Yunnan).

**D. hasseltii** (Bl.) C. Chr. Ind. Fil. 269. 1905. *Polypodium hasseltii* Bl. Fl. Jav. 195. t. 92. 1829.

*Distrib.* : Eastren Himalayas, Tonkin, China, Formosa, Ryukyu, Philippines, Malaya Islands, New Guinea.

**D. hexagonopetra** (Michx.) C. Chr. Ind. Fil. 270. 1905. *Polypodium hexagonopetrum* Mishx. Fl. Bor. Am. 2 : 271. 1803.

*Distrib.* : India (N. W. Himalayas), America.

**D. hypophlebia** Hayata, Icon. Pl. Formosa 4 : 154. f. 96. 1914.

*Distrib.* : India (Himalayas), Formosa.

**D. gracilis** (Moore) Ching, Bull. Fan Mem. Inst. Biol. 8 : 455. 1938. *Lastrea gracilis* Moore ex Bedd. Ferns Brit. India t. 198. 1866. *Aspidium thomsonii* var. *gracilis* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 508. 1880. *Polystichum thomsonii* var. *gracilis* Bedd. Handb. Ferns Brit. India 207. 1883.

*Distrib.* : India (Sikkim).

**D. gracillima** Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 452. 1938. *Nephrodium sparsa* var. *minor* Bak. Syn. Fil. ed. 2. 458. 1874 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 524. 1880. *Lastrea filix-mas* var. *minor* Bedd. Handb. Ferns Brit. India 254. 1883.

*Distrib.* : India North-West Himalayas. Sri Lanka.

**D. kawakamii** Hayata, Mater, Fl. Formos. 416. 1911.

*Distrib.* : India (Himalayas), Formosa.

**D. lachoongensis** (Bedd.) Nayar. & Kaur, Comp. to Bedd. Handb. 61 1974. *Lastrea filix-mas* var. *lachoongensis* Bedd. Handb. Ferns Brit. India Suppl. 58. 1892.

*Distrib.* : India (Sikkim).

**D. lepidopoda** Hayata, Icon. Pl. Formos. 4 : 161. f. 101. 1914.

*Distrib.* : India (Himalayas), Formosa.

**D. macrocarpa** Stewart, Bull. Torrey Bot. Club. 72 : 406. 1945. *Lastrea filix-mas* var. *elongata sensu* Bedd. Handb. Ferns Brit. India 250. 1883. non. *D. elongata* (Wall. ex Hook.) Kze.

*Distrib.* : India (Himalayas, S. India), Sri Lanka.

**D. marginata** (Wall ex Christ) Christ, Philip. Journ. Sci. 2 : 212. 1907. *Aspidium marginatum* Wall. Iist No. 391. 1828. (*pro parte*) ex Christ. Bull.

Soc. Bot. France 52. Mém. 1 : 39. 1905. *Nephrodium filix-mas* var. *marginata* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 521. t. 71. 1880. *Lastrea filix-mas* var. *elongata* Bedd. Ferns. Brit. India 250. 1883 ; Handb. Suppl. 56. 1892.

*Distrib.* : India (Eastern Himalaya and Eastern India), Sri Lanka, Malaya Peninsula, Formosa, China.

**D. nigra** Ching, Bull. Fan Mem. Inst. Biol. Bot. 8 : 430. 1938.

*Distrib.* : India (Meghalaya), China, Tibet.

**D. odontoloma** (Moore) C. Chr. Act. Hort. Gothob. 1 : 59. 1924. *Lastrea odontoloma* Moore, Ind. Fil. 90. 1858 ; Bedd. Ferns. South. India 39. t. 114. 1863. *Nephrodium odontoloma* (Moore) Hope. Journ. Bomb. Nat. Hist. Soc. 14 : 736. 1903. *Nephrodium filix-mas* var. *2 normale* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 519. t. 68. f. 2. 1880. *Lastrea filix-mas* var. *odontoloma* Bedd. Handb. Ferns Brit. India Suppl. 55. 1892.

*Distrib.* : India (North-West Himalayas), Indo-China, Tibet, China.

**D. patentissima** (Franch.) Panigr. & Basu Indian Journ. For. 3 (3) : 266. f. 1. t. 2. 1. & 4. 1980. *Aspidium patentissimum* Franch. Nouv. Arch. Mus. II. 10. 118. 1887, non Wall. 1829, nom. nud. *Nephrodium filix-mas* var.  *khasiana* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 519. t. 69. f. 1. 1880. *N. parallelogramma* subsp. *Khasiana* (Clarke) Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 729. 1903. *Lastrea filix-mas* var. *parallelogramma* Bedd. Handb. Ferns. Brit. India 249. 1883. p. p. et suppl. 56. 1892, *pro parte* quoad. var. *Clarkei* Bedd.

*Distrib.* : India (Sikkim, Meghalaya, Tamil Nadu) China, Tibet.

**D. pulvinulifera** (Bedd.) O. Ktze. Rev. Gen. Pl. 2 : 213. 1891. *Lastrea pulvinulifera* Bedd. Ferns Brit. India t. 333. 1870 ; Handb. Ferns Brit. India 255. 1883 ; Suppl. 60. 1892. *Lastrea pulvinulifera* var. *zeylanica* Bedd. Ferns Brit. India Suppl. 17, 1876. *Nephrodium pulvinuliferum* Hook. & Bak. Syn. Fil. 500. 1874. (*pro parte*) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 525. 1880 (*pro parte*). *Nephrodium sparsum* var. *squamulosa* Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 524. 1880 (*pro parte*). *Lastrea sparsa* var. *zeylanica* Bedd. Handb. Ferns Brit. India. 254. 1883. *Dryopteris harae* Ito in Hara's Fl. East. Himal. 476. t. 26. 1966.

*Distrib.* : N. E. Himalayas, Sri Lanka.

**D. ramosa** (Hope) C. Chr. Ind. Fil. 266. 1905. *Nephrodium ramosum* Hope, Journ. Bot. 1896. 126. 1896, sensu Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 523. 1880. *Lastrea rigida* Bedd. Handb. Ferns Brit. India 251. 1883 ; Suppl. 59. 1832 (non presl 1836).

*Distrib.* : North-East India, Afghanistan, Sri Lanka.

**D. reflexosquammata** Hayata Icon. pl. Formos. 4 : 176 f. 114. 1914.

*Distrib.* : India (Himalayas), Formosa.

**D. redactopinnata** Basu & Panigr. Indian J. For. 3 (3) : 270. t. 2. f. 3, 6. 1980.

*Distrib.* : India (Darjeeling & Sikkim Himalayas), Uttar Pradesh, (Kumaon), Kashmir.

**D. rhodolepis** (Clarke) C. Chr. Ind. Fil. 288. 1905. *Nephrodium rhodolepis* Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 526. t. 72. 1880. *Lastrea blumei sensu* Bedd. Ferns South. India t. 249. 1883 ; Handb. Ferns Brit. India 259. 1883.

*Distrib.* : India (Himalayas), Sri Lanka, Japan. Malaya Islands, Polynesia.

**D. rosthornii** (Diels) C. Chr. Ind. Fil. 289. 1905 *Nephrodium rosthornii* Diels, Engl. Jahrb. 29 : 190. 1900.

*Distrib.* : India (Eastern Himalayas), China.

**D. rubra** Ching, Bull. Fan Mem. Inst. Biol. Bot. 2 : 198. 1931. *Nephrodium urophyllum* var. *hasiana* Clarke, Trans, Linn. Soc. Lond. II. Bot. 1 : 547. 1880.

*Distrib.* : India (Assam, Meghalaya, Sikkim), China.

**D. scottii** (Bedd.) Ching, Bull. Dept. Biol. Col. Sci. Sun. Yatsen Univ. 6 : 3. 1933. *Polyodium scottii* Bedd. Ferns Brit. India t. 345. 1870.

*Distrib.* : India (Himalayas), Tonkin, China, Formosa.

**D. serrato-dentata** (Bedd.) Hayata, Icon. Pl. Formos. 4 : 179. 1914. *Lastrea filix-mas* var. *serratodentata* Bedd. Handb. Ferns. Brit. India Suppl. 55. 1892. *Nephrodium serrato-dentatum* Hope, Journ. Bomb. Nat. Hist. Soc. : 12 : 622. t. 10. 1899. *Lastrea filix-mas* var. *odonotoloma* Bak. in Hook. et Bak. Syn. Fil. 498. 1874 (excl. fig. of Bedd. cited and the var. *nidus*). *Lastrea odontoloma* Bedd. Ferns Brit. India t. 115. 1865 ; Handb. Ferns Brit. India 258. 1883. *Nephrodium odontoloma* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 521. 1880. *Lastrea odontoloma sensu* Bedd. Handb. Ferns Brit. India 248. t. 128. 1883 (*non* Moore, 1858).

*Distrib.* : India (N. E. Himalayas.) Bhutan, China, Formosa.

**D. sikkimensis** (Bedd.) O. Ktze, Rev. Gen. Pl. 2 : 813. 1891. *Polystichum sikkimensis* Bedd. Ferns Brit. India t. 127. 1866 ; Ferns Brit. India Suppl. 14. 1876. *Aspidium sikkimensis* Bak. in Hook. Syn. Fil. 256. 1867. *Lastrea sikkimensis* Bedd. Handb. Ferns Brit. India. 259. 1883.



*Distrib.* : India (Eastern Himalayas), China.

**D. sino-fibrillosa** Ching, Bull. Fan Mem. Inst. Biol. 10 : 180. 1940. *Dryopteris fibrillosa* (Clarke) Hand-Mazt. in Akad. Ang. Akad. Wiss. Wien 1922 : 2. 1922. *Nephrodium filix-mas* var. *fibrillosum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 520. t. 70, 1880. *Lastrea filix-mas* var. *parallelogramma* subvar. *fibrillosa* (Clarke) Bedd. Handb. Ferns Brit. India 250. 1883.

*Distrib.* : Himalayas to S. W. China.

**D. sparsa** (D. Don) O. Ktze, Rev. Gen. Pl. 2. 613. 1891. *Nephrodium sparsum* D. Don, Prod. Fl. Nepal 6. 1825 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 523. 1880 (excl. vars.). *Lastrea sparsa* (D. Don.) Bedd. Ferns South. India t. 103. 1863 (excl. parte) ; Bedd. Handb. Ferns Brit. India 252. 1883 (excl. parte). *Nephrodium sparsum* var. *latisquamm* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 524. 1880.

*Distrib.* : India (Himalayas), Sri Lanka, Burma, Malaya Peninsula, Malaya Islands, New Guinea, Tibet, China, Formosa, Japan, Philippines, Formosa.

**D. sparsa** var. **nitidula** (Wall. ex Bedd.) C. Chr. Ind. Fil. 293. 1905. *Lastrea filix-mas* var. *nitidula* Wall. ex Bedd. Ferns Suppl. t. 374. 1876; Handb. Ferns. Brit. India 254. 1883.

*Distrib.* : India (Himalayas).

**D. spinulosa** (Muell) O. Ktze, Rev. Gen. Pl. 2 : 813. 1891. *Polypodium spinulosum* Muell. Fl. Fridrichid. 193. f. 2. 1767 ; Bedd. Handb. Ferns Brit. India 252. 1883. *Lastrea spinulosa* Presl, Tent. Pterid. 76. 1836.

*Distrib.* : India (Himalayas) Europe, Asia, America.

**D. splendens** (Hook.) O. Ktze. Rev. Gen. Pl. 2 : 813. 1891. *Nephrodium splendens* Hook. Sp. Fl. 4 : 126. 1862 (excl. parte) ; Clarke, Trans. Linn. Soc. Lond. II. Bot, 1 : 527. 1880. *Lastrea splendens* Bedd. Ferns Brit. India t. 42. 1865 ; Handb. Ferns Brit. India 262. 1883.

*Distrib.* : India (Himalayas), S. W. China, Malacca.

**D. subimpressa** Loyal, Nova Hedw. 16 : 467. 1978.

*Distrib.* : Eastern Himalayas.

**D. submarginata** Loyal, Nova Hedw. 16 : 467. 1968.

*Distrib.* : Eastern Himalayas.

**D. subtriangularis** (Hope) C. Chr. Ind. Fil. 296. 1905. *Nephrodium subtringulare* Hope, Journ. Bot. 1890 : 327. 1890. *Lastrea filix-mas* var.

*substriangularis* (Hope) Bedd. Handb. Ferns Brit. India Suppl. 56. 1892.

*Distrib.* : India (Assam), China.

**D. uropinna** Price, Gard. Bull. Singapore 30 : 244. f. 1. A-C. 1977.

*Distrib.* : Himalayan region to S. Japan, Luzon.

**D. varia** (L.) O. Ktze, Rev. Gen. Pl. 2 : 814. 1891. *Polypodium varium* L. Sp. Pl. 2 : 1090. 1753. *Lastrea varia* Moore, Ind. Fil. 107. 1858 ; Bedd. Handb. Ferns Brit. India Suppl. 50. 1892.

*Distrib.* : India (Assam), China, Hong Kong, Japan, Formosa, Luzon Philippines.

**D. wallichiana** (Spreng.) Hyl. Bot. Notis. 392. 1953. Basu, Indian Journ. For. 3 (3) : 269. t. 2. f. 2 & 5. 1980. *Aspidium wallichianum* Spreng, Syst. veget. 4 (1) : 104. 1827. *Lastrea patentissima* Bedd. Ferns Sou h. India 39 t. 111. 1864. *nom superfl.* *Nephrodium patentissimum* Clarke, Journ. Linn. Soc. 15 : 156. 1876, incl. descr. in part, excl. type. *Nephrodium filix-mas* var. *patentissimum* (Clarke) Clarke Trans. Linn. Soc. London II Bot. 1 : 520. 1880. *pro parte* quoad sp. *Wallich* 340. *Dryopteris filix-mas* subsp. *patentissima* (Clarke) C. Chr. Ind. Fil. 265. 1905. *pro parte*, excl. *Nephrodium filix-mas* var. *fibrillosa* Clarke, 1880. *Lastrea filix-mas* var. *parallelogramma* Bedd. Handb. Ferns Brit. India 249. 1883. *pro parte* et suppl. 56. 1892 ; *pro parte* quoad subvar. *Clarkei* Bedd.

*Distrib.* : India (Himalayas), Sri Lanka, China, Burma, Java, Borneo, New Guinea, Philippines, Formosa.

**D. yunnanensis** (Christ) Copel. Gen. Fil. 122. 1947. *Aspidium yunnanense* Christ, Bull. Herb. Boiss. 6 : 965. 1898.

*Distrib.* : India (Himalayas), China.

**Nothoperanema** (Tagawa) Ching, Acta Phytotax. Sin. 11 : 25. 1966.

Type : *N. squamisatum* (Hook). Ching, Acta Phytotax. Sin. 11 (1) : 27. 1966.

**N. hendersonii** (Bedd.) Nakaike, Enum Pterid. Jap. 239. 1975. *Lastrea hendersonii* Bedd. Ferns Brit. India. Suppl. 17. t. 377. 1876. *Nephrodium spectabile* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 526. 1880. *Lastrea spectabilis* (Clarke) Bedd. Handb. Ferns Brit. India. 257. 1883.

*Distrib.* : India (Himalayas) Nepal China, Taiwan, Thailand,.

**N. squamisetum** (Hook.) Ching, Acta Phytotax. Sin. 11 : 27. 1966.  
*Nephrodium squamisetum* Hook. Sp. Fl. 4 : 140. t. 268. 1862. *Lastrea buechanani* Bedd. Handb. Ferns Brit. India 255. 1883.

*Distrib.* : India (Himalayas), Africa.

**Polystichum** Roth, Tent. Pterid. Fl. Germ. 3 : 31. 269. 1799 ; Khuller & Gupta, Nova Hedw. 63 : 41. 1979 ; 64 : 428. 1980.

Type : **P. lonchitis** (L.) Roth. Rom. Mag. 2 (1) : 106. 1799.

**P. acanthophyllum** (Franch.) Christ, Bull. Soc. Brot. France 52 Mem. 1 : 30. 1905. *Aspidium acanthopoyllum* Franch. Bull. Soc. France 32 : 23. 1885. *Polystichum aculeatum* var. *acanthophyllum* (Franch.) Bedd. Handb. Ferns Brit. India Suppl. 43. 1892.

*Distrib.* : India (Himalayas), China, Nepal.

**P. aculeatum** (L.) Schott, Gen. Fil. ad. t. 9. 1834. Bedd. Handb. Ferns Brit. India 207. 1883. *Polypodium aculeatum* L. Sp. Pl. 2 : 1090. 1753. (*pro parte*).

*Distrib.* : Cosmopolitan.

**P. anomalum** (Hook. & Arn.) J. Sm. Ferns Brit. For. 151. 1866 ; Bedd. Ferns South. India t. 219. 1869 ; Handb. Ferns Brit. India 209. 1883. *Aspidium anomalum* Hook. & Arn. Sp. Fil. 4 : 27. 1862.

**P. anomalum** var. **travancoricum** (Bedd.) Sledge, Bull. Brit. Mus. (N.H.) 5 : 33. 1973. *P. aculeatum* var. *travancoricum* Bedd. Handb. Ferns Brit. India. 209. 1883. *P. travancoricum* (Bedd.) Nayar & Kaur, Comp. to Bedd. Handb. 49. 1974.

*Distrib.* : South India, Sri Lanka, Tonkin, Thailand, China.

**P. atkinsoni** Bedd. Ferns Brit. India Suppl. 14. t 362. 1876 ; Handb. Ferns Brit. India 203. 1883. *Aspidium atkinsoni* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 506. 1880,

*Distrib.* : India (Sikkim), Bhutan.

**P. auriculatum** (L.) Presl, Tent. Pterid. 83. 1836 ; Bedd. Ferns South. India t. 120. 1866 ; Handb. Ferns Brit. India 203. t. 102. 1883 (*excl. vars.*) *Polypodium auriculatum* L. Sp. Pl. 2 : 1088. 1753.

*Distrib.* : South India, Sri Lanka.

**P. bakerianum** (Atkinson) Diels, Nat. Pflanzn. 1 (4) : 191. 1899. *P. aculeatum* var. *bakerianum* Clarke, Trans. Linn. Soc. Lond. II. Bot. t. 66. 1880 ; Bedd. Handb. Ferns Brit. India 210. 1883.

*Distrib.* : India (Sikkim).

**P. biaristatum** (Bl.) Moore, Ind. Fil. 86. 1856; *Aspidium biaristatum* Bl. Enum. Pl. Jav. 164. 1828. *Aspidium aculeatum* var. *biaristatum* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 510. 1880. *P. aculeatum* var. *biaristatum* (Clarke) Bedd. Handb. Ferns Brit. India 209. 1883.

*Distrib.* : (S. India, Meghalaya), Sri Lanka, Malaya Peninsula, China, Burma. Thailand, Java, Celebes, Formosa.

**P. castaneum** (Clarke) Nayar & Kaur, Comp. to Bedd. Handb. 50. 1883. *P. aculeatum* var. *castaneum* Clarke, Trans Linn. Soc. Lond. II. Bot, 1 : 509. 1880 ; Bedd. Handb. Ferns Brit. India 210. 1883.

*Distrib.* : India (Sikkim).

**P. duthiei** (Hope) C. Chr. Ind. Fil. 581. 1905. *Aspidium duthiei* Hope, Journ. Bomb. Nat. Hist. Soc. 12. 532. 1899.

*Distrib.* : India (Himalayas), China.

**P. discretum** (D. Don.) Diels, Nat. Pflanzn. 1 (4) : 199. 1899. *P. aculeatum* var. *setosum* Wall. ex Bedd. Handb. Ferns Brit. India 209. 1883.

*Distrib.* : India (Himalayas).

**P. eximum** (Mett. ex Kuhn) C. Chr. Bull. Dept. Biol. Coll. Sci. Sun yatsen Univ. no. 6 : 8. 1933. *Phegopteris exima* Mett. ex Kuhn in Linnaea 36 : 107. 1869.

*Distrib.* : India (Himalayas), China, Japan, Taiwan, Sri Lanka.

**P. garhwalicum** Nair & Nag, Journ. Jap. Bot. 51. 138. t. 1. 1976.

*Distrib.* : India (North-West Himalayas).

**P. heteropalaceum** Nair & Nag, Journ. Bomb. Nat. Hist. Soc. 75 : 153. 1977.

*Distrib.* : India (Meghalaya).

**P. indicum** khuller & Gupta, Nova Hedw. 32 : 425. 1980.

*Distrib.* : India (North-West Himalayas).

**P. lachenense** (Hook ) Bedd. Ferns Brit. India t. 32. 1865 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 506. 1880 ; Bedd. Handb. Ferns Brit. India 203. 1883. *Aspidium lachenense* Hook. Sp. Fil. 4 : 8. 1862.

*Distrib.* : Himalayas to China, Formosa, Japan.

**P. lentum** (D. Don) Moore, Ind. Fil. 86. 1858. *Aspidium lentum* D. Don, Prod. Fl. Nepal 4. 1825. *Polystichum auriculatum* var. *lentum* (D. Don) Bedd. Handb. Ferns Brit. India 204. 1883. *P. auriculatum* var. *sub-pinnatum* Bedd. Ferns Brit. India t. 136. 1867.

*Distrib.* : India (Himalayas), Nepal, Bhutan.

**P. lentum** (D. Don) Moore var. **bifurcatum** Biswas & Basu, J. Econ. & Tax. Bot. 3 : 961. f. 1. 1982.

*Distrib.* : India (Sikkim).

**P. levingei** Nair, Bull. Bot. Surv. India 11 : 192. 1869.

*Distrib.* : India (West Bengal : Darjeeling).

**P. longipinnulum** Nair, Amer. Fern Journ. 64 : 15. 1974.

*Distrib.* : India (Eastern Himalayas).

**P. lobatum** (Huds.) Presl, Tent. Pterid. 83. 1836. *Polypodium lobatum* Huds. Fl. Angl. 459. 1762. *P. aculeatum* var. *lobatum* (Huds.) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 509. 1880 ; Bedd. Handb. Ferns Brit. India 207. 1883.

*Distrib.* : India (Himalayas).

**P. lonchitis** (L.) Roth, Rom. Mag. 2 (1) : 106. 1799 ; Bedd. Ferns Brit. India t. 128. 1867 ; Handb. Ferns Brit. India 203. 1883. *Polypodium lonchitis* L. Sp. Pl. 2 : 1088. 1753.

*Distrib.* : India (Himalayas), Japan, Europe, N. America.

**P. mucronifolium** (Bl.) Nayar et Kaur, Comp. to Bedd. Handb. 49. 1974. *P. aculeatum* var. *mucronifolium* Bl. Enum. Pl. Jav. 64. 1828 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 509. 1880 ; Bedd. Handb. Ferns Brit. India 210. 1883.

*Distrib.* : India (Meghalaya, Assam).

**P. neolobatum** Nakai, Bot. Mag. Tokyo 39 : 118. 1925.

*Distrib.* : India (Himalayas), Bhutan, Nepal, Taiwan, Japan.

**P. nepalense** (Spreng.) C. Chr. Ind. Fil. 84. 1905 ; 585. 1906. *Aspidium nepalense* Spreng. Syst. 4 : 97. 1827. *Aspidium marginatum* Wall. List no 366. 1828 (*nom. nud.*) ; Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 459. t. 17. 1902. *Polystichum auriculatum* var. *marginatum* Bedd. Handb. Ferns Brit. India 201. 1883. *Aspidium auriculatum* var. *marginata* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 126. 1880.

*Distrib.* : India (Himalayas), China, Formosa.

**P. nepalense** var. **subbipinnatum** C. Chr. Contr. U.S. Nation Herb. 26 : 284. 1931.

*Distrib.* : Eastern Himalayas Bhutan.

**P. nigropalaceum** (Christ) Diels, in Engl. & Prant. Nat. pfl. 1 (4) : 191. 1899. *P. aculeatum* var. *nigropalaceum* Christ, Ber. Schweiz. Bot. Ges. 3. 1893. *P. setiferum* var. *nigropalaceum* (Christ) Sledge, Bull. Brit. Mus. (N.H.) Bot. 5 : 37. 1973. *P. aculeatum* var. *angulare* Bedd. Handb. Ferns Brit. India 207. 1883. pp. (*non Aspidium angulare* Wall.). *Aspidium angulare sensu* Hope, Journ. Bomb. Nat. Hist. Soc. 14 : 472. 1902. (*non* Willd. 1810).

*Distrib.* : India (North-West Himalayas, S. India). China Sri Lanka.

**P. obliquum** (D. Don) Moore, Ind. Fil. 87. 1858. *Aspidium obilquum* D. Don, Prod. Fl Nepal 3. 1825. *Aspidium caespitosum* Wall. List no. 367. 1828. (*nom. nud.*). *Aspidium auriculatum* Sw. var. *caespitosa* Clarke, Trans. Linn. Soc. Lond. II. Bot. I : 507. 1880. *Polystichum auriculatum* var. *caespitosum* (Clarke) Bedd. Handb. Ferns Brit. India 204. 1883.

*Distrib.* : India (Himalayas), Bhutan.

**P. prescottianum** (Wall. ex Mett.) Moore, Ind. Fil. 101. 1858 ; Bedd. Handb. Ferns Brit. India 210. t. 105. 1883. *Aspidium prescottianum* Wall. ex Mett. in Abh. Senckneb. Ges. Frank. 2 : 48. 1858.

*Distrib.* : India (Himalayas). China and Formosa.

**P. punctiferum** C. Chr. Contr. U.S. Nation Herb. 26 : 288. t. 17. 1931.

*Distrib.* : India (Eastern Himalayas) Bhutan, Burma, China.

**P. semifertile** (Clarke) Ching, Lingnan. Sci. Journ. 15 : 398. 1938. *Aspidium aculeatum* var. *semifertile* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 509. 1880.

*Disirib.* : (Eastern Himalayas, Tonkin,) Thailand, China.

**P. setiferum** (Forssk.) Moore ex Woyнар Mitt. Naturw. Ver. Steierm. 49 : 181. 1913. *Polypodium setiferum* Forsk. Fl. Aeypt. arab. 185. 1775. *Polystichum aculeatum* var. *angulare* Presl ex Bedd. Ferns South. India t. 121. 1865 ; Handb. Ferns Brit. India 207. 1883.

*Distrib.* : North & South India.

**P. setiferum** var **crenatum** Nair, Amer. Fern Journ. 64 : 15. 1974.

*Distrib.* : India (Punjab).

**P. setosum** (Wall. ex Bedd.) Khullar & Gupta, Nova Hedw. 32. 420. 1980. *P. aculeatum* var. *setosum* Wall. ex Bedd. Handb. Ferns Brit. India 209. 1883.

*Distrib.* : India (North-West Himalayas, Sikkim).

**P. squarrosus** (D. Don) Fée, Gen. Fil. 278. 1850-52. *Aspidium squarrosus* D. Don, Prod. Fl. Nepal 4. 1825. *P. aculeatum sensu* Bedd. Ferns South. India t. 121. 1865. *P. aculeatum* var. *rufobarbatum* Wall. ex Bedd. Handb. Fern Brit. India 207. 1883.

*Distrib.* : India (Himalayas) to China.

**P. stenophyllum** Christ, Bull. Soc. Bot. France 52. Mém. 1 : 27. 1905.

*Distrib.* : India (Himalayas) to China, Formosa.

**P. stimulans** (Kunze ex Mett.) Bedd. Ferns Brit. India t. 31. 1865. *Aspidium stimulans* Kunze ex Mett. Abh. Senckneb. Ges. Frank. 2 : 327. 1858. *A. ilicifolium* D. Don, Prod. Fl. Nepal. 3. 1825. *Polystichum ilicifolium* (D. Don) Moore, Ind. Fil. 94. 1858. (*non* Fée 1850) ; Bedd. Handb Ferns, Brit. India 206. 1883.

*Distrib.* : India (Himalayas) to W. China (Yunnan).

**P. tacticopterum** (Kunze) Moore, Ind. Fil. 105. 1858. *Aspidium tacticopterum* Kunze, Linnaea 24 : 210. 851.

*Distrib.* : S. India, Sikkim, Meghalaya.

**P. thomsoni** (Hook. f.) Bedd. Ferns Brit. India 1 : t. 126. 1865. Handb. Ferns. Brit. India 206. 1883. *Aspidium thomsoni* Hook. f. in Hook. 2nd cent. Ferns t. 25. 1860 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 508. 1880.

*Distrib.* : India (Himalayas) to China, Formosa.

**P. tsus-simense** (Hook.) Smith, Journ. Hist. Fil. 219. 1875. *Aspidium tsus-simense* Hook. Sp. Fl. 4 : 16. t. 220. 1862.

*Distrib.* : India (Himalayas).

## LOMARIOPSIDACEAE Alton

**Leptogramma** J. Sm. Journ. Bot. 4 : 51. 1841.

Lectotype : **L. totta** (Schlecht.) J. Sm. Journ. Bot. 4 : 52. 1841.

**L. totta** (Schlecht.) J. Sm. Journ. Bot. 4 : 52. 1841 ; Bedd. Handb. Ferns Brit. India 377. t. 215. 1883. *Gymnogramma tottum* Schlecht. Adumb. 13. t. 6. 1825. *Grammitis totta* Presl, Tent. Pterid. 209. t. 9. f. 4. 1836 ; Bedd. Ferns South. India t. 49. 1863. *Thelypteris totta* (Schlecht.) Nayar & Kaur, Comp to Bedd. Handb. 90. 1974.

*Distrib.* : Throughout India in mountainous regions, Nepal, Bhutan, Sri Lanka, China, Japan, Malesia.

## BOLBITIDACEAE (Pic. Ser.) Ching

**Bolbitis** Schott, Gen. Fil. t. 14. 1834 ; Hennipman, Fl. Males. ser. II. 1 (4) : 314. 1978.

Lectotype : **B. serratifolia** (Mart. ex Kaulf.) Schott, Gen. Fil. 3 : t. 14. 1834.

**B. angustipinna** (Hayata) Ito, Journ. Jap. Bot. 14 : 443. 1938. *Leptochilus angustipinnus* Hayata, Icon. Pl. Fern. 5 : 297. f. 119. 1915. *Acrostichum crispatum* Clarke var. *contaminans* Clarke. Trans. Linn. Soc. Lond. II. Bot. 1 : 580. t. 84. f. 2 A, C. 1880.

*Distrib.* : India (Himalayas), Sri Lanka, China, Taiwan, Thailand, Philippines.

**B. contaminans** (Wall.) Ching C. Chr. Ind. Fil. Suppl. 3 : 47. 1934. *Acrostichum contaminans* Wall. List. no. 22. 1828. *Gymnopteris contaminans* Bedd. Ferns Brit. India Suppl. 27. 1876 ; Handb. Ferns Brit. India 435. 1883 (*pro parte*). *Paecilopteris repanda* Bedd. Ferns South. India t. 202. 1865.

*Distrib.* : South India, Burma, Sri Lanka.

**B. costata** (Wall. ex Hook.) Ching, C. Chr. Ind. Fil. Suppl. 3 : 47. 1934. *Acrostichum costatum* Wall. ex Hook Sp. Pl. 5 : 262. 1864. *Gymnopteris costata* Bedd. Ferns Brit. India Suppl. 27. 1876 ; Handb. Ferns Brit. India 438. 1883.



*Distrib.* : North-East India, Nepal, Bangladesh.

**B. crispatula** (Wall.) Ching. C. Chr. Ind. Fil. 102. 1905. *Acrostichum crispatum* Wall. List no. 24. 1828. *Gymnopteris contaminans* Bedd. Ferns Brit. India 435. 1883 (*pro parte*).

**B. deltigera** (Wall ex Clarke) C. Chr. Ind. Fil. 3: 48. 1934. *Meniscium deltigerum* Wall. List no. 59. 1828 ex Clarke, Trans Linn. Soc. Lond. II. Bot. 1 : 572. 1880. *Gymnopteris flagellifera* Bedd. Ferns Brit. India Suppl. 27. 1876 ; Handb. Ferns Brit. India 433. 1883.

*Distrib.* : North-East India, Sikkim, Bangladesh, Burma, Japan, Formosa, China, Malesia.

**B. presliana** (Fée) Ching, C. Chr. Ind. Fil. Suppl. 3 : 49. 1934. *Acrostichum preslianum* Fée, Acrost. 46. 1845. *Gymnopteris presliana* (Fée) Bedd. Handb. Ferns Brit. India 439. 1883.

*Distrib.* : South India, Philippines.

**B. simicordata** (Bak.) Ching in C. Chr. Ind. Fil. Suppl. 3 : 50. 1934. *Acrostichum semicordatum* Bak. Syn. Fil. 422. 1868.

*Distrib.* : India, Australia.

**B. sinuata** (Presl) Henmann, Blumea 18 : 148. 1970. *Polypodium sinuatum* Presl. Rel. Haenk. 1 : 21. 1825.

*Distrib.* : India (Nicobar Islands), Thailand, Malesia.

**B. subcordata** (Copel.) Ching, C. Chr. Ind. Fil. Suppl. 3 : 50. 1934. *Campium subcordatum* Copel. Philip. Journ. Sci. 37. 369. 1928.

*Distrib.* : India (Eastern Himalayas), China, Indo-China, Japan.

**B. subcrenata** (Hook. & Grev.) Ching, C. Chr. Ind. Fil. 3 : 50. 1934. *Acrostichum subcorenatum* Hook. & Grev. Icon. Fil. t. 110. 1829. *Gymnopteris subcrenata* (Hook. & Grev.) Bedd. Handb. Ferns Brit. India 437. 1883.

*Distrib.* : South India, Western ghats, Sri Lanka.

**B. undulata** (Wall.) Ching, C. Chr. Ind. Fil. Suppl. 3 : 50. 1934. *Notholaena undulata* Wall. List no. 140. 1828.

*Distrib.* : India, Cambodia.

**B. virens** (Hook. & Grev.) Schott var. **compacta** Hennipman, Blumea 18 : 149. 1970.

*Distrib.* : India (Nicobar Islands), Vietnam. Thailand. Malesia.

**Egenolfia** Schott, Gen. Fil. t. 16. 1834 ; Ching, Bull. Fan Mem. Inst. Biol. Bot. 2 : 302. 1931 ; Nair & Kaur, Bull. Nation. Bot. Gard, Lucknow no. 100. 17. 1964.

Type : **E. hamiltoniana** Schott, Gen. Fil. t. 16. 1834.

**E. appendiculata** (Willd.) J. Sm. Ferns Brit. & For 111. 1866. *Acrostichum appendiculatum* Willd. Sp. Pl. 5 : 114, 1810. *Polybotrya appendiculata* (Willd.) J. Sm. Journ. Bot. 4 : 150. 1841 ; Bedd. Ferns South. India t. 194. 1865 ; Handb. Ferns Brit. India 424. 1883.

*Distrib.* : Throughout India, Philippines. Hongkong.

**E. appendiculata** var. **major** (Bedd.) Nayar & Kaur, Comp. to Bedd. Handb. 99. 1974. *Polypotrya appendiculata* var. *major* Bedd. Handb. Ferns Brit. India 424. 1883.

*Distrib.* : India (Sikkim).

**E. appendiculata** (Willd.) J. Sm. ssp. **vivipera** (Hook.) Hennipman var. **neglecta** (Hennipman) Dixit comb. nov. *Bolbitis appendiculata* (Willd.) Iwats. ssp. *vivipera* (Hook.) Hennipman var. *neglecta* Hennipman, *Blumea* 18 : 147. 1970.

*Distrib.* : India (Andaman & Nicobar Islands), Malesia.

**E. asplenifolia** (Bory) Fée, Gen. Fil. 358. 1852. *Acrostichum asplenifolium* Bory, Bél. Voy. Bot. 2 : 21. t. 3. 1833. *Acrostichum wightianum* Wall. List no. 2163. 1829 (nom. nud.). *Polybotrya asplenifolia* Presl, Tent. Pterid. 231. 1836 ; Bedd. Ferns South. India t. 195. 1865. *Polybotrya appendiculata* var. *asplenifolia* (Bory) Bedd. Handb. Ferns Brit. India 424. t. 235. 1883.

*Distrib.* : S. India, Common in Western Ghats, Sri Lanka.

**E. bipinnatifida** J. Sm. Hist. Fil. 132. 1875. *Acrostichum appendiculatum* var. *costulata* Hook, Sp. Fil. 4 : 252. 1860. Bedd. Ferns Brit. India t. 110. 1865. *Polybotrya appendiculata* var. *costulata* (Hook.) Bedd. Handb. Ferns Brit. India 426. t. 257. 1883.

*Distrib.* : Eastern India, Burma.

**E. helferiana** (Kze.) C. Chr. Contr. U.S. Nat. Herb. 26. 292. 1931 ; *Polybotrya helferiana* Kze. Farnkr. 2 : 35. t. 114. 1848. *Polybotrya helferiana* var. *hamiltoniana* Wall. ex. Bedd, Ferns Brit. India t. 111. 1855 ; Handb. Ferns Brit. India 426. t. 256. 1883.

*Distrib.* : India (Meghalaya. Assam. Andaman Islands), Burma.

**E. nodiflora** (Bory) Fée, Gen. Fil. 48. 1850-52. *Polybotrya nodiflora* Bory, Bél. Voy. Bot. 2 : 17. 1833. *Acrostichum hamiltoniana* Wall. List no. 29. 1929. (*nom. nud.*). *Polybotrya appendiculata* var. *subintegra* Bedd. Ferns Brit. India t. 3. 1865.

*Distrib.* : India (Assam, Meghalaya, South India), Burma, Bangladesh, Siam, Cambodia.

**E. keralensis** (Nayar & Chandra) Nayar & Kaur, Bull. Nation. Bot. Gard. Lucknow no. 94 : 4. 1964. *Bolbitis keralensis* Nayar et Chandra, Amer. Fern Journ. 54 : 9. 1964.

*Distrib.* : S. India.

**E. sinensis** (Bak.) Maxon, Proc. Biol. Soc. Wash. 36 : 173. 1923. *Acrostichum sinense* Bak. Kew Bull. 1906 ; 14. 1906. *Polybotrya appendiculata* var. *ludens* Bedd. Ferns Brit. India Suppl. 26. 1876.

*Distrib.* : Eastern India (Himalayas), Nepal. S. China, Japan,

**E. vivipera** (Hook.) C. Chr. Ind. Fil. Suppl. 3 : 102. 1934. *Polybotrya vivipera* Hook. Exot. Fl. 2 : t. 107. 1825.

*Distrib.* : Eastern India, Cambodia.

#### ELAPHOGLOSSACEAE Pic. Ser.

**Elaphoglossum** Schott ex J. Sm. Hook. Journ. Bot. 4 : 148. 1841 ; Sledge, Bull. Brit. Mus. (N.H.) Lond. Bot. 4. 81. 1967 ; Ghosh & Biswas. J. Econ. Tax. Bot. 4(3) : 995. 1980.

Type : **E. conforme** (Sw.) Schott, Gen. ad. t. 14 : 1834.

**E. angulatum** (Bl.) Moore, Ind. Fil. V. 1857. *Acrostichum angulatum* Bl. Enum. Pl. Jav. 101. 1828 ; *Acrostichum conforme sensu* Hook. Sp. Fil. 5 : 98. 1864. (*pro parte*) ; *non* Sw. *Elaphoglossum marginata sensu* Thw. Enum. Pl. Zeyl. 380. 1864. (*non* Wall. ex Fée). *E. laurifolium sensu* Bedd. Ferns South. India 67. t. 200. 1864 (*non* T. Moore). *E. latifolium sensu* Bedd. Handb. Ferns Brit. India 416. t. 248. 1883 (*non* J. Sm.). *E. krajina* Biswas, Misc. Inf. Kew 1939 : 240. f. 2. 1939.

*Distrib.* : S. India, Sri Lanka, Java.

**E. beddomei** Sledge, Bull. Brit. Mus. (N.H.) Bot 4 (2) : 85. 1967. *E. stigmatolepis sensu* Bedd. Ferns South. India 67. t. 197. 1864 ;

Handb. Ferns Brit. India 418. 1883 (*non* T. Moore). *Acrostichum stigmatolepis sensu* Bak. in Hook. et Bak. Syn. Fil. ed. 2 : 51. 1874.

*Distrib.* : South India.

*E. ceylanicum* Krajina ex Sledge, Bull. Brit. Mus. (N.H.) 4 (2) : 95. 1967.

*Distrib.* : India (Sikkim), Sri Lanka.

*E. cherrapunji* Ghosh et Biswas, J. Econ. Tax. Bot. 4 (3) : 996. t. 2. 1983.

*Distrib.* : E. India (Meghalaya).

*E. commutatum* (Mett.) v. A. v. R. Malaya Ferns Suppl. 1 : 427. 1917. *E. laurifolium sensu* Moore, Ind. Fil. 359. 1862 (*pro parte*) quoad specim. ex India. Ceylon, Java). *Acrostichum commutatum* Mett. apud. Kuhn in Ann. Mus. Bot. Lugd. Bat. 4 : 292. 1869.

*Distrib.* : India, Malaya Peninsula.

*E. jowaiense* Biswas & Ghosh, Journ. Bomb. Nat. Hist. Soc. 79 (3) : 650. f. 1 5. 1982. *E. viscosum sensu* Bedd. Handb. Ferns Brit. India 40. 1883.

*Distrib.* : India (Meghalaya, Sikkim), Nepal.

*E. marginatum* (Wall. ex Fée) Moore, Ind. Fil. 89, 1857. *Acrostichum marginatum* Wall. List no. 17. 1829. *nom. nud.* ex Fée Mém. Fam. Foug. 2 : 31. 1845 (excl. syn. Bl.). *Elaphoglossum conforme sensu* Bedd. Handb. Ferns Brit. India 416. 1883 (*pro parte*), excl. f. 247. non J. Sm.

*Distrib.* : South-East India, Eastern Himalayas, Nepal, Bhutan, Sri Lanka, Java.

*E. nilgircum* krajina ex Sledge, Bull. Brit. Mus. (N.H.) 4 (2) : 94. 1967. *E. squamosum sensu* Bedd. Ferns South. India 67. t. 197. 1864 ; Handb. Ferns Brit. India 420. f. 25. 1883, excl. Specim. ex Ceylon, non J. Sm.

*Distrib.* : South India.

*E. prainii* Ghosh & Biswas, J. Econ. Tax. Bot. 4 (3) : 995. t. 1. 1983.

*Distrib.* : E. India (Nagaland).

*E. simonsianum* Ghosh & Biswas, J. Econ. Tax. Bot. 4 (3) : 1001. t. 4. 1983.

*Distrib.* : E. India (Meghalaya).

**E. stelligerum** (Wall. ex Bak.) T. Moore ex Alston et Bonner in *Candollea* 15 : 216. 1956. *Acrostichum stelligerum* Wall. ex Bak. in Hook. et Bak. Syn. Fil. ed. 2. 521. 1874. *Elaphoglossum viscosum sensu* Bedd. Ferns South. India 67 t. 196. 1864 ; Handb. Ferns Brit. India 40. 1883 ; (pro parte).

*Distrib.* : S. India, China, India-China.

**E. stigmatolepis** (Fée) Moore, Ind. Fil. XVI : 15. 1857. *Acrostichum stigmatolepis* Fée, Mém. Fan. Foug. 2 : 62. t. 24. f. 2. 1845. *Elaphoglossum conforme sensu* Bedd. Ferns South. India 67. t. 19. 1864 ; Handb. Ferns South, India 416. f. 247. 1883 (*pro parte* ; non J. Sm.) *E. ballardianum* Biswas, Bull. Misc. Inf. Kew 1939 : 239. t. 1. 1939.

*Distrib.* : South India.

**E. thomsonii** Ghosh & Biswas, J. Econ. Tax. Bot. 4 (3) : 996. t. 3. 1983.

*Distrib.* : India (Sikkim).

#### NEPHROLEPIDACEAE (Ching) Pic. Ser.

**Arthropteris** J. Sm. ex Hook. Bot. Antarct. Voy. II. Fl. Nov.-Zel. 2 : 43 : 1854.

Type : **A. tenella** (G. Forst.) J. Sm. ex Hook. Bot. Antarct. Voy. II. Fl. Nov. Zel. 2 : 43. 1854.

**A. palisotti** (Desv.) Alston, Biol. Soc. Brot. 30 : 6. 1954. *Aspidium palisotti* Desv. Ges. Naturf. Berl. Mag. 5 : 320. 1811. *Nephrolepis ramosa* Moore, Ind. Fil. 102. 1858 ; Bedd. Handb. Ferns Brit. India 284. t. 145. 1883.

*Distrib.* : South India, Sri Lanka, Malaya, Australia, W. Africa, Thailand to South China.

**Nephrolepis** Schott, Gen. Fil. t. 3. 1834.

Lectotype : **N. exaltata** (L.) Schott, Gen. Fil. t. 3. 1834.

**N. biserrata** (Sw.) Schott, Gen. Fil. ad. t. 3. 1834. *Aspidium biserratum* Sw. Schrad. Journ. Bot. 1800 (2) : 32, 1801. *Nephrolepis acuta* Presl. Tent. Pterid. 79. 1836.

*Distrib.* : India (South India, North-East India), Bangladesh, Sri Lanka, Tropical Africa.

**N. cordifolia** (L.) Presl, Tent, Pterid. 79. 1836 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 541. 1880 ; Bedd. Handb. Ferns Brit. India 282. t. 144. 1883 ; *Polypodium cordifolium* L. Sp. Pl. 2 : 1089. 1753. *Nephrolepis tuberosa* Presl, Tent. Pterid. 79. 1836 ; Bedd. Ferns South. India t. 92. 1865.

*Distrib.* : Tropics and subtropics of the world.

**N. delicatula** (Decne) Pic. Ser. Webbia 23 : 181. 1968. *Nephrodium delicatulum* Decne in Jacq. Voy. Ind. Bor. 4 : 178. t. 179. 1844. *Nephrolepis paucifrons* d' Almeida, J. Indian Bot. Soc. 5 : 51. f. 1-5. 1926.

*Distrib.* : India (Himalayas) Nepal, Burma, Thailand, China (Yunnan).

**N. exaltata** (L.) Schott, Gen. Fil. t. 3. 1834 ; Bedd. Ferns South. India t. 93. 1865 ; Handb. Ferns Brit. India 283. 1883.

*Disirib.* : Tropics and subtropics of the world

**N. falcata** (Cav.) C. Chr. Ann. Dansk. Bot. Ark. 9 : 15. 1937. *Tectaria falcata* Cav. Descr. 250. 1802.

*Distrib.* : South India and tropics of the world.

**N. hirsutula** (Forst.) Presl, Tent. Pterid. 79. 1836. *Polypodium hirsutulum* Forst. Prod. 81. 1786.

*Distrib.* : India, Japan, Thailand. New Guinea.

**N. multiflora** (Roxb.) Jarrett in Morton, Contrib. U.S. Nat. Herb. 38 : 309. 1974 ; Manickam & Ninan, New Botanist 1 : 15 : 1976. *Davallia multiflora* Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 515. t. 31. 1844.

*Distrib.* : S. India.

**N. undulata** (Afz. ex Sw.) J. Sm. in Curtis Bot. Mag. 72 : 35. 1846. *Aspidium undulatum* Afz. ex Sw, Schrad. Journ. Bot. 1800 (2) : 32. 1801.

*Distrib.* : India, China Japan.

#### OLEANDRACEAE Ching ex Pic. Ser.

**Oleandra** Cav. Anales Hist. Nat. 1 (2). 115. 1799 ; Pic. Ser. Webbia 20 (2) : 745. 1965.

Type : **O. neriiformis** Cav. Anales Hist. Nat. 1 (2) : 115. 1799.

**O. musaefolia** (Bl.) Presl, Epim Bot. 42. 1849 ; Bedd. Handb. Ferns Brit. India 287. 1883. *Aspidium musaefolium* Bl. Enum. Pl. Jav. 141.

1828. *Oleandra neriiformis sensu* Bedd. Ferns South. India 32. t. 91. 1863. (*non* Cav.).

*Distrib.* : South India, Sri Lanka. Java.

**O. pistillaris** (Sw.) C. Chr. Ind. Fil. Suppl. 3 : 132. 1934. *Aspidium pistillare* Sw. Schrad. Journ. Bot. 1800 (2) : 30. 1801. *Oleandra neriiformis sensu* auct. Bedd. Ferns. Brit. India t. 264. 1868 ; Handb. Ferns Brit. India 285. t. 146. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 541. 1880.

*Distrib.* : Eastern Himalayas, Nepal, Bhutan, Malaysia, Java.

**O. undulata** (Willd.) Ching, Lingnan Sci. Journ. 12 : 565. 1933. *Polypodium undulatum* Willd. in Linn. Sp. Pl. 5: 155. 1810. *O. cumingi* var. *longipes* Hook. Sp. Fil. 4 : 15. 1860 ; Bedd. Ferns Brit. India t. 135. 1866. *O. cumingii* Hook. et Bak. Syn. Fil 303. 1868 (*non* J. Sm.) ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 542. 1880 ; Bedd. Handb. Ferns Brit. India 288. 1883.

*Distrib.* : Eastern India, Burma, Malesia, China, Taiwan.

**O. wallichii** (Hook.) Presl, Tent. Pterid. 78. 1836 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 542 ; 1880. Bedd. Ferns Brit. India t. 263. 1868. Handb. Ferns Brit. India. 287. t. 147. 1883. *Aspidium wallichianum* Hook. Exot. Fl. 1. t. 5. 1823.

*Distrib.* : India (Himalayas, Punjab to Assam), Nepal, Bhutan, Burma, Indo. China, Malay Peninsula, China, Formosa.

#### DAVALLIACEAE Mett. ex. Frank

**Araiostegia** Copel. Philip. Journ. Sci. 34 : 240. 1927.

Type : **A. hymenophylloides** (Bl.) Copel. Philip. Journ. Sci. 34 : 240. 1927.

**A. beddomei** (Hope) Ching in Chien et Chun Fl. Republ. Pop. Sin. 2 : 288. 1959. *Davallia beddomei* Hope, Journ. Bomb. Nat. Hist. Soc. 12 : 527. 1899.

*Distrib.* : Eastern India.

**A. clarkei** (Bak.) Copel. Philip. Journ. Sci. 34 : 341. 1927. *Davallia clarkei* Bak. Hook. & Bak. Syn. Fil. ed. II. 91. 1874. *leucostegia clarkei* (Bak.) C. Chr. Contrib. U.S. Nat. Herb. 26 : 294. 1931.

*Distrib.* : India (Himalayas), Tibet. S.W. China.

**A. dareiformis** (Hook.) Copel. Univ. Calif. Publ. Bot. 12 : 398. 1931. *Polypodium dareiformis* Hook. 2nd Cent. Ferns. t. 24. 1860. *Davallia dareiformis* Levinge ex Clarke in Trans Linn. Soc. Lond. II. Bot. 1 : 443. 1880.

*Distrib.* : Himalayas from Nepal to Assam, Sri Lanka, Indo-China, S.W. China.

**A. delavayi** (Bedd. ex Clarke et Bak.) Ching, in Fl. Reip. Pop. Sin. 2: 289. 1959. *Davallia pulchra* var. *delavayi* Bedd. ex Clarke et Bak. Journ. Linn. Soc. 2 : 410. 1888. *Leucostegia delavayi* (Bedd. ex Clarke et Bak.) Ching in C. Chr. Ind Fil. Suppl. 3 : 120. 1934. *Leucostegia pulchra* var. *delavayi* sensu Bedd. Handb. Ferns Brit. India Suppl. 13. 1892.

*Distrib.* : Meghalaya, Sikkim, Nepal, China (Yunnan).

**A. hookeri** (Moore ex Bedd.) Ching in Fl. Reip. Pop. Sin. 2 : 291. 1959. *Acrophorus hookeri* Moore ex Bedd. Ferns Brit. India t. 95. 1865. *Leucostegia hookeri* (Moore ex Bedd.) Bedd. Handb. Ferns Brit. India 52. 1883.

**A. hymenophylloides** (Bl.) Copel. Philip. Journ. Sci. 34 : 241. 1927. *Aspidium hymenophylloides* Bl. Enum. Pl. Jav. 172. 1828. *Leucostegia hymenophylloides* (Bl.) Bedd. Ferns Brit. India Suppl. 4. 1876 ; Handb. Ferns Brit. India 54. 1883.

*Distrib.* : South India.

**A. perdurans** (Christ) Copel. Univ. Calif. Publ. Bot. 12 : 400. 1931. *Davallia perdurans* Christ, Bull. Herb. Boiss. 6 : 970. 1898.

*Distrib.* : India (Himalayas), W. China.

**A. pseudocystopteris** (Kunze) Copel. Phil. Journ. Sci. 34 : 241. 1927. *Leucostegia pseudocystopteris* Kunze in Bot. Zeit. 68. 1850 ; Bedd. Ferns Brit. India t. 92. 1865 ; Handb Ferns Brit. India 54. 1883. *Davallia pulchra* var. *pseudocystopteris* Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 444. 1880.

*Distrib.* : India (Himalayas), Nepal.

**A. pulchra** (D. Don) Copel. Philip. Journ. Sci. 34 : 241. 1927. *Davallia pulchra* D. Don, Prod. Fl. Nepal. 2. 1825 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 444. 1880. *leucostegia pulchra* (D. Don) J. Sm. Lond. Journ. Bot. 1 : 426. 1842 ; Bedd. Handb. Ferns Brit. India 52. t. 25. 1883. *Acrophorus pulchra sensu* Bedd. Ferns South. India t. 10. 1863.

*Distrib.* : Throughout India in mountainous regions, Nepal, Bnutan, Sri Lanka, Burma.



**Davallia** Sm. Mém. Acad. Turin 5 : 414. 1793.

Lectotype : **D. canariensis** (L.) Sm. Mém. Acad. Sci. Turin. 5 : 414. t. 9. f. 6. 1793.

**D. bullata** Wall. ex Hook. Sp. Fil. 1 : 169. t. 50 B. 1846 ; Bedd. Ferns South. India t. 17. 1863 ; Handb. Ferns Brit. India 61. t. 31. 1883 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 445. 1880.

*Distrib* : Throughout India in mountainous regions, Nepal, Bhutan, Sri Lanka, Burma, Malaya Peninsula. Japan, China, Malay Islands.

**D. denticulata** (Burm.) Mett. ex Kuhn, Fil. Deck. 27. 1867. *Adiantum denticulatum* Burm. Fl. Ind. 236. 1768. *Davallia elegans* Sw. Schrad. Journ. Bot. 1800 (2) 87 : 1801 ; Bedd. Ferns South. India t. 18, 1863 ; Handb. Ferns Brit. India 59. 1883.

*Distrib.* : South India, Sri Lanka, Malaya Peninsula.

**D. divaricata** Bl. Enum. Pl. Jav. 237. 1828 ; Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 445. 1880 ; Bedd. Handb. Ferns Brit. India 60. 1883. *Davallia polyantha* Hook. Sp. Fil. 1 : 168. t. 59 A. 1846.

*Distrib.* : North-East India, Burma, Malaya Peninsula, Malay Islands. China.

**D. solida** (Forst.) Sw. Scharad. Journ. Bot. 1800 (2) : 87. 1801 ; Bedd. Ferns Brit. India t. 104. 1865 ; Handb. Ferns Brit. India 468. 1883. *Trichomanes solidum* Forst. Prod. 86. 1786.

*Distrib.* : India (Eastern Himalayas), Burma, Malaya Peninsula, Malay Islands, Polynesia..

**D. trichomanoides** Bl. Enum. Pl. Jav. 238. 1828.

*Distrib.* : India (Eastern Himalayas) Malaya Peninsula, Malay Islands, New Guinea.

**Humata** Cav. Desc, 272. 1802.

Lectotype : **H. ophioglossa** Cav. Descr. 273. 1802.

**H. assamica** (Bedd.) C. Chr. Contr. U.S. Nat. Herb. 26 : 293. 1931. *Acrophorus assamicus* Bedd. Ferns. Brit. India t. 94. 1866. *Davallia assamica* (Bedd.) Bak. Syn. Fil. 452. 1868 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 443. 1880. *Leucostegia assamica* (Bedd.) J. Sm. Hist. Fil. 84. 1875 ; Bedd. Hand. Ferns Brit. India 51. 1883.

*Distrib.* : India (Himalayas) S.W. China.

**H. griffithiana** (Hook.) C. Chr. Contr. U.S. Nat. Herb. 26 : 293. 1931. *Davallia griffithiana* Hook. Sp. Fil. 1 : 168. t. 493. 1846 ; Bedd. Ferns Brit. India 1. 106. 1865 ; Handb. Ferns Brit. India 60. 1883.

*Distrib.* : India (Meghalaya) Bhutan, Burma, S. China, Formosa.

**H. heterophylla** (Sm). Desv. Prod. 323. 1825 ; Thothathri : *et al.* in Journ. Bomb. Nat. Hist. Soc. 74 : 251. 1977. *Davallia heterophylla* Sm. Mém. Acad. Turin 5 : 415. 1793.

*Distrib.* : India (Great Nicobar Islands) : Malesia, Polynesia.

**H. repens**. (L.f.) Diels, Nat. Pfl. : 1 (4) : 209. 1999. *Adiantum repens* L. f. Suppl. 446. 1781. *Davallia pedata* J. Sm. Mém. Acad. Turin 5 : 415. 1793 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 442. 1880. *Humata pedata* J. Sm. Journ. Bot. 3 : 416. 1841 ; Bedd. Ferns South. India t. 12: 1863 ; Handb. Ferns Brit. India 48. t. 23. 1883.

*Distrib.* : South-East. India, Sikkim ; Malay Peninsula, Malay Islands, Australia, Sri Lanka, N. Australia, China, Japan, Mascareen Islands.

**Leucostegia** Presl, Tent. Pterid. 94. t. 4. f. 11. 1836.

Type : **L. immersa** (Wall ex Hook.) Presl, Tent. Pterid. 95 t. 4. f. 11. 1836 ; Bedd. Ferns South. India t. 11. 1863 ; Handb. Ferns. Brit. India 51. 1883. *Davallia immersa* Wall. ex Hook. Sp. Fil. 1 : 156. 1846 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 443. 1880.

*Distrib.* : Throughout India in mountainous regions, Indo-China, W. China, Formosa, Malay Peninsula, Philippines, Malay Islands, New Guinea.

**Paradvallodes** Ching, Acta Phytotax. Sin. 11 : 18. 1966.

Type : **P. multidentatum** (Wall. ex Hook. et Bak.) Ching, Acta Phytotax. Sin. 11 : 18. 1966.

**P. membranulosum** (Wall. ex Hook.) Ching, Acta Phytotax. Sin. 11. 1966. *Davallia membranulosa* Wall. ex Hook. Sp. Fil. 1 : 159. t. 53 A. 1846 ; Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 443, 1880. *Leucostegia membranulosa* J. Sm. Hist. Fil. 84. 1875 ; Bedd. Ferns Brit. India t. 98. 1865. Handb. Ferns Brit. India 50. 1883.

*Distrib.* : E.W. India, Nepal, China.

**P. multidentatum** (Wall. ex Hook. et Bak.) Ching, Acta Phytotax.

Sin. 11 : 18. 1966. *Davallia multidentata* (Wall. ex Hook. et Bak.) *Lecuostegia multidentata* wall. ex Hook Syn. Fil. 91, 1867. Bedd. Handb. Ferns Brit. India 50. 1883. *Microlepia pteropus* Bedd. Ferns Brit. India t. 313. 1869.

*Distrib.* : India (Himalayas) S.W. China.

#### GYMNOGRAMMITIDACEAE Ching

*Gymnogrammitis* Griff. Icon. Pl. Asiat. 2 : 129. 1849.

Type : *G. dareiformis* (Hook.) Ching, ex Tard. et Christ, Notul Syst. Paris 6 : 2. 1937.

*G. dareiformis* (Hook). Ching ex Tard. et Christ, Notul. Syst. Paris 6 : 2. 1937. *Polypodium dareiformis* Hook. 2nd Cent. Ferns t. 24. 1860 ; Bedd. Handb. Ferns Brit. India 316. t. 169. 1883. *Acrophorus hookeri sensu* Bedd. Ferns Brit. India t. 95. 1865.

*Distrib.* : India (Himalayas).

#### BLECHNACEAE (Presl) Copel.

*Blechnidium* Moore, Octava Nat. Print. Brit. Ferns 2 : 210. 1860.

Type : *B. melanopus* (Hook.) Moove, Octava Nat. Print. Brit. Ferns 2 : 210 : 1860.

*B. melanopus* (Hook.) Moove, Octava Nat. Print. Brit Ferns 2 : 210. 1860. Bedd. Ferns Brit. India t. 50. 1865 ; Handb. Ferns Brit. India 133. t. 67. 1883. *Blechnum melanopus* Hook. Sp. Fil. 3 : 64. t. 161. 1860.

*Distrib.* : India (Meghalaya).

*Blechnum* L. Sp. Pl. 2 : 1077. 1753.

Lectotype : *B. occidentale* L. Sp. Pl. 2 : 1077. 1753 (Orientale ex err.) ed. II. 2 : 1524. 1763.

*B. orientale* L. Sp. Pl. 2 : 1077. 1753 ; Clarke Trans. Linn. Soc. Lond. II. Bot. 1 : 474. 1880 ; Bedd. Ferns South. India t. 29. 1863 ; Handb. Ferns Brit. India 132. t. 86. 1883.

*Distrib.* : Throughout India, Sri Lanka, China, Malaya. Peninsula, Malesian Islands. Polynesia, Australia.

**Brainea** J. Sm. Cat. Kew Ferns Gard. 5. 1856.

Type : **B. insignis** (Hook.) J. Sm. Journ. Bot. 5 : 237. t. 2. 1856.

**B. insignis** (Hook.) J. Sm. Journ. Bot. 5 : 237. t. 2. 1856 ; Bedd. Ferns Brit. India t. 139. 1867 ; Handb. Ferns Brit. India 396. t. 230. 1883. *Bowringia insignis* Hook. Journ. Bot. 5 : 237. t. 2. 1853.

*Distrib.* : India (Meghalaya) Burma, Malay Peninsula, Hong Kong.

**Doodia** R. Br. Prod. Fl. Nov. Holl. 151. 1810.

Lectotype : **D. aspera** R. Br. Prod. Fl. Nov. Holl. 151. 1810

**D. aspera** R. prod. Br. Fl. Nov. Holl. 151. 1810 ; Bedd. Ferns Brit. India t. 222. 1865 ; Handb. Ferns Brit. India 137. t. 69. 1883.

*Distrib.* : India (Tamil Nadu), Sri Lanka, Java.

**Woodwardia** Sm. Mém. Acad. Sc. Turin 5 : 411. t. 9. f. 3. 1793.

Leetotype : **W. radicans** (L.) Sm. Mém. Acad. Sci. Turin 5 : 412. 1793.

**W. orientalis** Sw. Schrad. Journ. Bot. 1800. (2) : 76. 1801.

*Distrib.* : India (Himalayas), Tonkin, China, Formosa, Japan, Philippines.

**W. unigemmata** (Makino) Nakai, Bot. Mag. Tokyo 39 : 103. 1925. *W. radicans* (L.) Sm. Var. *unigemmata* Makino, Journ. Jap. Bot. 2 : 7. 1818. *W. radicans sensu* Bedd. Handb. Ferns Brit. India 135 t. 68. 1883.

*Distrib.* : India (Himalayas), China. Japan, Tonkin, Formosa, Philippines.

#### STENOCHLAENACEAE Ching

**Stenochlasna** J. Sm. Journ. Bot. 3 : 401. 1841.

Lectotype **S. scandens** (Sw.) J. Sm. in Hook. Journ. Bot. 3 : 401. 1841.

**S. palustris** (Burm.) Bedd. Ferns Brit. India Suppl. 26. 1876 ; Handb. Ferns Brit. India 421. t. 253. 1883. *Polypodium palustre* Brum. Fl. Ind. 234. 1768. *Acrostichim palustre* (Burm) Clarke, Trans. Linn. Soc. Lond. II. Bot. 1 : 577. 1880. *Stenochlaena scandens* (Sw.) J. Sm. in Hook. Journ. Bot. 3 : 401. 1841 ; Bedd. Ferns South. India t. 201. 1867.

*Distrib.* : India (Western Ghats, West Bengal), Sri Lanka, China, Queensland, Fiji.

#### AZOLLACEAE Wett.

*Azolla* Lam. Encycl. Méth. 1 : 343. 1783.

Type : *A. filiculoides* lam. Enycl. Méth. Bot. 1 : 343. 1783.

*A. imbricata* (Roxb. ex Griff.) Nakai, Bot. Mag. Tokyo 39 : 185. 1925. *Salvinia imbricata* Roxb. ex Griff. Calc. Journ. Sci. 4 : 470. 1844.

*Distrib.* : Throughout India, Nepal, China, South Korea, Formosa, Ryukyu, Japan.

*A. pinnata* R. Br. Prod. Fl. N. Holl. 167. 1810.

*Distrib.* : Throughout India, Japan, Asia, Australia, Africa.

#### SALVINIACEAE Seguiet

*Salvinia* Séguier, Fl. Veron. 3 : 52. 1754.

Type : *S. natans* (L.) All. Pedem. 2 : 269. 1785.

*S. auriculata* Aubl. Hist. Pl. Guian 2 : 969. t. 367. 1775 ; Kamathy, Sci. & Cult. 34. 396. 1968.

*Distrib.* : India (Kerala), Trop. America.

*S. cucullata* Roxb. ex Bory, Bél. Voy. Bot. 2 : 6. 1833 ; Roxb. ex Griff. Calc. Journ. Nat. Hist. 4 : 470. 1844.

*Distrib.* : Eastern India, Western Australia.

*S. molesta* Mitch. Br. Fern Gaz. 10. 251. 1973.

*Distrib.* : India (Kerala).

*S. natans* (L.) All. Fl. Pedem. 2 : 289. 1785. *Marsilea natans* L. Sp. Pl. 2. 1099. 1753.

*Distrib.* : Throughout India, Warm regions of Europe and S. E. Asia.

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