

A Preliminary Inventory  
of  
**ORCHIDACEAE**  
in  
**INDIA**



S. K. Jain and A. Mehrotra  
**BOTANICAL SURVEY OF INDIA**  
DEPARTMENT OF ENVIRONMENT

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by  
**S. K. Jain and A. Mehrotra**

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*Cover: Cypripedium himalaicum (Photo: POSSCEF, Howrah).*

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## **A PRELIMINARY INVENTORY OF ORCHIDACEAE IN INDIA**

S. K. JAIN AND A. MEHROTRA

*Botanical Survey of India, Howrah.*

Orchids have attracted worldwide attention due to their usually very ornamental and long-lasting flowers and ease in hybridisation for horticultural purposes.

Orchidaceae is the second largest family of flowering plants in India. The last consolidated account of the family was by Hooker in his *Flora of British India* (1888-90). The status of the family has considerably changed during the last about 100 years, particularly due to the changed boundaries of the country, changes in taxonomic status and several new species and new records having been described from the country. There is no recent exhaustive and consolidated account or enumeration of species of orchids in India.

The Botanical Survey of India has started publishing the new *Flora of India* in the form of *Fascicles*, and revisionary accounts of several families, tribes and genera have already been published. In the case of very large families, it is proposed to prepare enumerations of taxa believed to occur in India and circulate them for inviting suggestions chiefly for any additions or deletions and on nomenclature, distribution, rarity and endemism. It is with this purpose that the present draft inventory of the species of Orchids in India is being published.

After Hooker's work, accounts of orchids of some regions of the country were published, such as on orchids of Sikkim by King and Pantling (1898) and Bruhl (1926), and orchids of north-western Himalayas by Duthie (1906). Recently, Hara (1966, 1971), Tuyama (1975) and Rao and Deori (1980a, b) published on eastern Himalayas, Seidenfaden and Arora (1982) on north-western Himalayas and Abraham and Vatsala (1981) and Joseph (1982) on southern India. Pradhan (1976, 1979), and Bose & Bhattacharjee (1980) published illustrated accounts of orchids. Few genera have received critical

revisionary treatments in India so far. Das and Jain (1980) published the revision of the genus *Coelogyne* for India. The works of Seidenfaden (1968, 1971, 1973 a & b, 1975 a & b, 1976 a & b, 1977 a & b, 1978 a & b, 1979, 1980, 1982 a & b) on the Orchids of Thailand are very relevant to the taxonomy of several Indian genera.

A detailed taxonomic account of the whole family must await the contributions of several workers. The present list is based on an analysis of all major and important published literature and materials available to the authors in the Calcutta herbarium and some other herbaria of the country. The nomenclature has been brought as up-to-date as possible. No original taxonomic work has, however, been attempted in drafting this list and the concepts of earlier authors only are adopted.

The genera and species are arranged alphabetically. Intraspecific taxa are not listed except in the case of *Coelogyne* which was recently revised and a few other cases. After the name of the taxon, the original citation is given. A reference is given to Hooker's work (F.B.I.) directly for the species, or for its basionym or relevant synonym. In the case of taxa added to Indian flora after Hooker's work as new records or new species and varieties, and where reference to Hooker's work naturally cannot be given, the original citation or other recent reference is provided. Several generic names familiar to workers on orchids have been reduced to synonyms; in order to facilitate consultation of the list, such generic synonyms are listed at their appropriate alphabetical position with a cross-reference to the accepted generic name.

The general distribution of the taxa in India and in the World is indicated as far as possible; it is based on literature and material available to authors. The distribution in India is intended to indicate broad phytogeographical region, rather than specific areas of occurrence. Species considered endemic on the basis of data available to authors are marked with one asterisk (\*). Further, species not seen in field for decades and having no record of collection for a long time are considered as 'perhaps extinct'. These are marked with the dagger sign (†).

As regards the number of taxa of Orchidaceae occurring in India, it may be recalled that Pradhan (1976) estimated *ca.* 125 genera and 800 species, whereas Bose and Bhattacharjee (1980) estimated *ca.* 132 genera and 860 species. The present list includes 144 genera and 925 species.

Out of 925, 284 species are considered endemic to India ; this gives 30.70 percent endemism. The north-eastern India and peninsular India exhibit high endemism.

*It can not be claimed that this list is fully exhaustive ; some new record or new name might have escaped attention. The authors would welcome suggestions for additions and criticism on distribution, rarity and nomenclature. Particularly species indicated here as endemic, 'perhaps extinct' or not collected for very long time should attract information on their recent collection or occurrence under cultivation in some garden or conservatory. Such suggestions would be gratefully acknowledged.*

The authors are grateful to Shri S. R. Rathore for some data on the genera *Calanthe* and *Cymbidium*. One of us (AM) is thankful to the Government of India for award of a Research Fellowship.

Some important literature consulted for drafting this inventory is listed at end ; it is not necessarily cited in the text.

Abbreviations used :

F. B. I. : Hooker's *Flora of British India*.

#### ACAMPE Lindl.

**Acampe multiflora** (Lindl.) Lindl., *Fol. Orch.* 1. 1853.

*Saccolabium longifolium* (Lindl.) Hook.f., F.B.I. 6 : 62. 1890. p.p.

*Distrib.* : North eastern India

*World Distrib.* : South East Asia.

**Acampe ochracea** (Lindl.) Hochr. in *Bull. New York Bot. Gard.* 6 : 270. 1910.

*Saccolabium ochraceum* Lindl. ; F.B.I. 6 : 62. 1890.

*Distrib.* : Tropical Eastern Himalayas, Peninsular, Eastern &

North eastern India.

*World Distrib.* : India, Burma & Sri Lanka.

**Acampe papillosa** (Lindl.) Lindl., Fol. Orch. 2: 1853 ; F.B.I. 6: 63. 1890.

*Distrib.* : Western & Eastern Himalayas, Eastern & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Acampe praemorsa** (Roxb.) Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 495. 1932.

*Saccolabium praemorsum* (Roxb.) Hook. f., F.B.I. 6 : 62. 1890.

*Distrib.* : Peninsular & Eastern India.

*World Distrib.* : India, Burma & Sri Lanka.

**Acampe rigida** (Buch.-Ham. ex Sm.) Hunt in Kew Bull. 24 : 98. 1970.

*Saccolabium longifolium* (Lindl.) Hook. f., F.B.I. 6 : 62. 1890. p.p.

*Distrib.* : Tropical Eastern Himalayas, North eastern and Peninsular India.

*World Distrib.* : Central Himalayas & South East Asia.

#### ACANTHOPHIPPIUM Blume

**Acanthophippium bicolor** Lindl. in Bot. Reg. t. 1730. 1835 ; F.B.I. 5 : 815. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Acanthophippium striatum** Lindl. in Bot. Reg. 45. 1838 ; F.B.I. 5 : 816. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Acanthophippium sylhetense** Lindl., Gen. & Sp. Orch. 117. 1833 ; F.B.I. 5 : 815. 1890.

*Distrib.* : Eastern Himalayas, Eastern & North eastern India.

*World Distrib.* : South East Asia.



## ACRIOPSIS Reinw. ex Blume

\***Acriopsis harai** Tuyama in J. Jap. Bot. 39(5) : 129. 1964.

*Distrib.* : Eastern Himalayas ; endemic.

**Acriopsis indica** Wight, Ic. 5(1): t. 1748. 1852; F.B.I. 6: 79. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

## ACROCHAENE Wt. &amp; Arn. ex Chiov.

**Acrochaene punctata** Lindl., Fol. Orch. 1. 1852. ; F.B.I. 5 : 783. 1890.

*Distrib.* : Tropical Eastern Himalayas.

*World Distrib.* : India, Bhutan.

AERIDES Lour. (also see ORNITHOCHILUS and PAPILIONANTHE)

**Aerides crispum** Lindl., Gen. & Sp. Orch. 239. 1833; F.B.I. 6 : 45. 1890.

*Distrib.* : Peninsular India.

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

\***Aerides emericii** Reichb. f. in Gard. Chron. 586. 1882 ; F.B.I. 6 : 47. 1890.

*Distrib.* : Andaman Islands ; endemic.

**Aerides falcata** Lindl., Paxt. Fl. Gard. 2 : 142. 1852 ; F.B.I. 6 : 46. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Aerides fieldingii** B.S. Williams, Orch. Grow. Man. ed. 2. 39. 1862 ; F.B.I. 6 : 45. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Aerides maculosum** Lindl. in Bot. Reg. t. 58. 1845; F.B.I. 6: 45. 1890.

*Distrib.* : Peninsular India & Eastern India ; endemic.

**Aerides multiflora** Roxb., Fl. Ind. 3 : 475. 1832 ; F.B.I. 6 : 44. 1890.

*Distrib.* : Throughout India (except North West India).

*World Distrib.* : South East Asia.

**Aerides odorata** Lour., Fl. Cochinch. 2 : 525. 1790 ; F.B.I. 6 : 47. 1890.

*Distrib.* : Tropical Himalayas.

*World Distrib.* : India to Philippines.

**Aerides ringens** (Lindl.) Fischer in Kew Bull. 284. 1828.

*A. radicosum* A. Rich. & *A. lineare* Hook. f., F.B.I. 6 : 46. & 47. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

#### AGROSTOPHYLLUM Blume

**Agrostophyllum brevipes** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 156. t. 213. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

**Agrostophyllum callosum** Reichb. f., Seem. Fl. Vit. 296. 1868 ; F.B.I. 5 : 824. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Agrostophyllum khasianum** Griff. in Calcutta J. nat. Hist. 4 : 378. t. 19. 1844 ; F.B.I. 5 : 824. 1890.

*Distrib.* : Eastern Himalayas, North eastern India & Andaman islands.

*World Distrib.* : India, Southern Asia.

\***Agrostophyllum myrianthum** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 155. t. 211. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

#### AMITOSTIGMA Schltr.

\***Amitostigma puberulum** (King & Pantl.) Schltr., Fedde Reper. Sp. Nov. 4 : 92. 1919.

*Orchis puberula* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta  
8 : 304. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

ANOECTOCHILUS Blume

\***Anoectochilus brevilabris** Lindl., Gen. & Sp. Orch. 499. 1840 ;  
F.B.I. 6 : 95. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

\***Anoectochilus clarkei** (Hook. f.) Seidenf. & Smit., Orch. Thailand  
I : 88. 1959 (excl. Thai pl.).

*Odontochilus clarkei* Hook. f., F.B.I. 6 : 100. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

**Anoectochilus crispus** Lindl. in J. Linn. Soc. 1 : 180. 1857 ; F.B.I.  
6 : 99. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas, Burma.

\***Anoectochilus elatior** Lindl. in J. Linn. Soc. 1 : 178. 1857 ; F.B.I.  
6 : 95. 1890.

*Distrib.* : Peninsular India ; endemic.

**Anoectochilus elwesii** (Clarke ex Hook. f.) King & Pantl. in Ann.  
Roy. Bot. Gard. Calcutta 8 : 296. t. 394. 1898.

*Odontochilus elwesii* Clarke ex Hook. f., F.B.I. 6 : 100. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Anoectochilus grandiflorus** Lindl. in J. Linn. Soc. 1 : 179. 1857 ;  
F.B.I. 6 : 100. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Anoectochilus griffithii** Hook. f., Fl. Brit. India 6 : 96. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Anoectochilus lanceolatus** Lindl., Gen. & Sp. Orch. 499. 1840.

*Odontochilus lanceolatus* (Lindl.) Bl. ; F.B.I. 6 : 101. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Anoectochilus nicobaricus** Balak. & Chakrab. in Bull. bot. Surv. India 20 : 80. 1978 (1979).

*Distrib.* : Nicobar islands ; endemic.

**Anoectochilus pomrangianus** Seidenf. in Dansk Bot. Ark. 32(2) : 41. 1978.

*Zexine abbreviata* Hook. f., F.B.I. 6 : 109. 1890. p.p.

*Distrib.* : North eastern India.

*World Distrib.* : India, Southern Asia.

†\***Anoectochilus rotundifolius** (Blatt.) Balak. in J. Bombay nat. Hist. Soc. 63 : 530. 1960.

*Odontochilus rotundifolius* Blatt., J. Bombay nat. Hist. Soc. 32 : 521. 1928.

*Distrib.* : Peninsular India ; endemic.

**Anoectochilus roxburghii** (Wall.) Lindl. in Royle, Illus. Bot. Himal. 368. 1839. ; Gen. & Sp. Orch. 499. 1840. ; F.B.I. 6 : 95. 1890.

*Distrib.* : Subtropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalaya & South East Asia.

\***Anoectochilus sikkimensis** King & Pantl. in J. As. Soc. Bengal 65: 124. 1896.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

†\***Anoectochilus tetrapteris** Hook. f., Fl. Brit. India 6: 96. 1890.

*Distrib.* : North eastern India ; endemic.

#### ANTHOgonium Wall. ex Lindl.

**Anthogonium gracile** Lindl., Nat. Syst. ed. 2. 341. 1836 ; F.B.I. 5 : 823. 1890.

*Distrib.* : Temperate Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

## AORCHIS Vermeulen

**Aorchis roborovskii** (Maxim.) Seidenf. in Nord. J. Bot. 2: 9. 1962.

*Orchis stracheyi* Hook. f., F.B.I. 6 : 128. 1890.

*Galearis stracheyi* (Hook.f.) Hunt in Kew Bull. 26 : 172. 1971.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Nepal, Bhutan.

**Aorchis spathulata** (Lindl.) Vermeulen, Jahr. Nat. Ver. Wuppe. 25 : 33. 1972.

*Orchis spathulata* (Lindl.) Reichb. f. ; F.B.I. 6 : 127. 1890.

*Galearis spathulata* (Lindl.) Hunt in Kew Bull. 26 : 172. 1971.

*Distrib.* : Western and Eastern Himalayas.

*World Distrib.* : India, Nepal, Bhutan and Tibet.

## APHYLLORCHIS Blume

\***Aphyllorchis alpina** King & Pantl. in Ann. Roy. Bot. Gard.

Calcutta 8 : 261. t. 347. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

†\***Aphyllorchis gollani** Duthie in J. As. Soc. Bengal 71 : 42. 1902.

*Distrib.* : Western Himalayas ; endemic.

**Aphyllorchis montana** Reichb. f. in Linnaea 41 : 57. 1876 ; F.B.I. 6 : 116. 1890.

*A. prainii* Hook. f., F.B.I. 6 : 117. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Tropical South East Asia.

**Aphyllorchis parviflora** King & Pantl. in Ann. Roy. Bot. Gard.

Calcutta 8 : 261. t. 347. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Sub-tropical & temperate Himalayas and South East Tibet.

\***Aphyllorchis vaginata** Hook. f., Fl. Brit. India 6 : 117. 1890.

*Distrib.* : North eastern India ; endemic.

APOSTASIA Blume

**Apostasia nuda** R. Br. in Wall. Pl. As. Rar. 1 : 76. t. 85. 1830 ;

F.B.I. 6 : 175. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Apostasia odorata** Bl., Bijdr. 423. 1825.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Apostasia wallichii** R. Br. in Wall. Pl. As. Rar. 1 : 75. t. 84. 1830 ;

F.B.I. 6 : 175. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

APPENDICULA Blume

**Appendicula cornuta** Bl., Bijdr. 302. 1825.

*A. bifaria* Lindl. ; F.B.I. 6 : 82. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Appendicula koenigii** Hook.f., Fl. Brit. India 6 : 84. 1890.

*Distrib.* : India (without any locality).

*World Distrib.* : South East Asia.

**Appendicula reflexa** Bl., Bijdr. 301. 1825.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

ARACHNANTHE Blume (see ARACHNIS, ARMODORUM)

ARACHNIS Blume

**Arachnis cathcartii** (Lindl.) J. J. Sm., Nat. Tijd. Nederl. 72 : 75.  
1912.

*Arachnanthe cathcartii* (Lindl.) Benth. ; F.B.I. 6 : 27. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

**Arachnis clarkei** (Reichb. f.) J. J. Sm., Nat. Tijd. Nederl. 72 : 76. 1912.

*Arachnanthe clarkei* (Reichb. f.) Rolfe. ; F.B.I. 6 : 28. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

#### ARMODORUM Breda

**Armodorum labrosum** (Lindl. & Paxt.) Schltr., Fedde Reper. 10 : 177. 1911.

*Arachnanthe bilinguis* Benth. ; F.B.I. 6 : 28. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

#### ARUNDINA Blume

**Arundina graminifolia** (D. Don) Hochr. in Bull. New York Bot. Gard. 6 : 270. 1910.

*A. bambusifolia* Lindl., Gen. & Sp. Orch. 125. 1830 ; F.B.I. 5 : 857. 1890.

*A. chinensis* Bl., Bijdr. 502. 1825 ; F.B.I. 5 : 857. 1890.

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas, South East Asia.

#### ASCOCENTRUM Schltr. ex Sm.

**Ascocentrum ampullaceum** (Roxb.) Schltr., Fedde Reper. 1 : 975. 1913.

*Saccolabium ampullaceum* (Roxb.) Lindl. ; F.B.I. 6 : 64. 1890.

*Distrib.* : Tropical Eastern Himalayas, North eastern India & Andaman islands.

*World Distrib.* : Central Himalayas & Southern Asia.

#### BIERMANNIA King & Pantl.

†\***Biermannia bimaculata** (King & Pantl.) King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 200. t. 267. 1898.

*Sarcochilus bimaculata* King & Pantl. in J. As. Soc. Bengal 44 : 340. 1875.

*Distrib.* : Eastern Himalayas ; endemic.

## BLETIA Ruiz &amp; Pav. (see EULOPHIA)

## BRACHYCORYTHIS Lindl.

**Brachycorythis acuta** (Reichb. f.) Summer. in Kew Bull. 238. 1955.

*Distrib.* : North eastern India.

*World Distrib.* : India, Southern Asia.

**Brachycorythis galeandra** (Reichb. f.) Summer. in Kew Bull. 239. 1955.

*Habenaria galeandra* (Reichb. f.) Benth.; F.B.I. 6: 163 & 164. 1890. (incl. var. *major* Hook. f.).

*Distrib.* : Western Himalayas, North eastern and Eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Brachycorythis helferi** (Reichb. f.) Summer. in Kew Bull. 235. 1955.

*Habenaria helferi* (Reichb. f.) Hook. f., F.B.I. 6 : 164. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Southern Asia.

\***Brachycorythis iantha** (Wight) Summer. in Kew Bull. 238. 1955.

*Habenaria galeandra* Benth. var. *nilagirica* Hook. f., F.B.I. 6 : 164. 1890.

*H. iantha* (Wt.) Benth. ; F.B.I. 6 : 164. 1890. (quoad syn. tantum excl. descr.).

*Distrib.* : Peninsular India ; endemic.

**Brachycorythis obcordata** (Lindl.) Summer. in Kew Bull. 243. 1955.

*Habenaria galeandra* sensu Hook. f., F.B.I. 6 : 163. 1890.

*Distrib.* : Western Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

\***Brachycorythis splendida** Summer. in Kew Bull. 240. 1955.

*Habenaria iantha* sensu Hook. f., F.B.I. 6 : 164. 1890. (descr. tantum partim excl. syn.).

*Distrib.* : Peninsular India ; endemic.



- \***Brachycorythis wightii** Summer. in Kew Bull. 242. 1955.  
*Habenaria iantha* sensu Hook., f., F.B.I. 6 : 164. 1890. (quoad  
 descr. partim excl. syn.).  
*Distrib.* : Peninsular India, endemic.

BULBOPHYLLUM Thou. (also see SUNIPIA)

- † \***Bulbophyllum acutiflorum** A. Rich. in Ann. Sci. nat. Ser. 2.  
 15 : 18. t. 7. 1841.  
*Cirrhopetalum acutiflorum* (A. Rich.) Hook. f., F.B.I. 5 : 779. 1890.  
*Distrib.* : Peninsular India ; endemic.

- Bulbophyllum affine** Lindl., Gen. & Sp. Orch. 48. 1830 ; F.B.I.  
 5 : 756. 1890.  
*Distrib.* : Tropical & subtropical Himalayas.  
*World Distrib.* : South East Asia.

- † \***Bulbophyllum albidum** Hook. f., Fl. Brit. India 5 : 757. 1890.  
*Distrib.* : Peninsular India ; endemic.

- Bulbophyllum amplifolium** (Rolfe) Balak. & Chow. in Bull. bot.  
 Surv. India 9 : 88. 1967.  
*Cirrhopetalum amplifolium* Rolfe in Not. Roy. Bot. Gard. Edinburgh  
 8 : 20. t. 10. 1913.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : South East Asia.

- Bulbophyllum andersonii** (Hook. f.) J. J. Sm. in Bull. Jard. Bot.  
 Buitenz. Ser. 2. 8 : 22. 1912.  
*Cirrhopetalum andersonii* Hook. f., F.B.I. 5 : 777. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.

- † \***Bulbophyllum aureum** (Hook. f.) J. J. Sm. in Bull. Jard. Bot.  
 Buitenz. Ser. 2. 8 : 22. 1912.  
*Cirrhopetalum aureum* Hook. f., F.B.I. 5 : 777. 1890.  
*Distrib.* : Peninsular India : endemic.

- Bulbophyllum bisetum** Lindl., Ann. nat. Hist. 10 : 186. 1842 ;  
 F.B.I. 5 : 767. 1890. (excl. Syn. *B. carniflorum* Reichb. f.).

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Bulbophyllum blepharistes** Reichb.f. in Flora 55 : 278. 1872 ;  
F.B.I. 5 : 779. 1890.

*Cirrhopetalum longescapum* Teijsm. & Binnend. ; F.B.I. 6 : 189. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Bulbophyllum capillipes** Par. & Reichb. f. in Trans. Linn. Soc.  
30 : 150. t. 32a. 1874 ; F.B.I. 5 : 755. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Southern Asia.

**Bulbophyllum careyanum** (Hook.) Spreng., Syst. 3 : 732. 1826 ;  
F.B.I. 5 : 760. 1890.

*Distrib.* : Tropical Himalayas.

*World Distrib.* : Southern Asia.

**Bulbophyllum carniflorum** Reichb. f. in Walp. Ann. 6: 253. 1861 ;  
F.B.I. 5 : 767. 1890. p.p.

*B. densiflorum* Rolfe in Kew Bull. 139. 1892.

*Distrib.* : Peninsular India, Western & Eastern Himalayas, North  
eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Bulbophyllum caudatum** Lindl., Gen. & Sp. Orch. 56. 1830 ;  
F.B.I. 5 : 759. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Central and Eastern Himalayas.

\***Bulbophyllum cauliflorum** Hook. f., Ic. Pl. t. 2036. 1890; Fl.  
Brit. India 5 : 758. 1890.

*Distrib.* : Eastern Himalayas & North eastern India; endemic.

**Bulbophyllum clarkeanum** King & Pantl. in J. As. Soc. Bengal  
64 : 333. 1895.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

- Bulbophyllum congestum** Rolfe in Kew Bull. 131. 1912.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- \***Bulbophyllum cornu-cervi** King & Pantl. J. As. Soc. Bengal 64 : 332. 1895.  
*Distrib.* : Eastern Himalayas ; endemic.
- Bulbophyllum crassipes** Hook. f., Fl. Brit. India 5 : 760. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- Bulbophyllum cylindraceum** Lindl., Gen. & Sp. Orch. 53. 1830 ;  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Central Himalaya and South East Asia.
- Bulbophyllum delitescens** Hance in J. Bot. 14 : 44. 1876.  
*B. manni* Reichb. f. ; F.B.I. 5 : 780. 1890.  
*Cirrhopetalum setiferum* Rolfe in Kew Bull. 35. 1895.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- Bulbophyllum devangiriensis** Balak. in J. Bombay nat. Hist. Soc. 67 : 66. 1970.  
*B. uniflorum* Griff. (non Hassk. 1844) ; F.B.I. 5 : 755. 1890.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India, Bhutan.
- †\***Bulbophyllum ebulbum** King & Pantl. in J. As. Soc. Bengal 64 : 334. 1895.  
*Distrib.* : Eastern Himalayas ; endemic.
- †\***Bulbophyllum elassonotum** Summer. in Bot. Mag. t. 9408. 1935.  
*Distrib.* : North eastern India ; endemic.
- Bulbophyllum elatum** (Hook. f.) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. 8 : 23. 1912.  
*Cirrhopetalum elatum* Hook. f., F.B.I. 5 : 775. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas, Southern Asia.

\***Bulbophyllum elegantulum** (Rolfe) J.J. Sm. in Bull. Jard. Bot. Buitenz. Ser 2 : 8 : 23. 1912.

*Cirrhopetalum elegantulum* Rolfe in Gard. Chron. Ser. 3. 3 : 552. 1891.

*Distrib.* : Peninsular India ; endemic.

**Bulbophyllum emarginatum** (Finet) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. 8 : 24. 1912.

*B. brachypodium* var. *brachypodium* & var. *geei* Rao & Balak. in Bull. bot. Surv. India 10 : 350. 1968.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Bulbophyllum eublepharum** Reichb. f. in Walp. Ann. 6 : 252. 1861 ; F.B.I. 5 : 764. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

\***Bulbophyllum fimbriatum** (Lindl.) Reichb. f. in Walp. Ann. 6 : 260. 1861.

*Cirrhopetalum fimbriatum* Lindl. ; F.B.I. 5 : 774. 1890.

*Distrib.* : Peninsular India ; endemic.

**Bulbophyllum fischeri** Seidenf. in Dansk Bot. Ark. 29(1) : 202. 1973.

*Cirrhopetalum gamblei* Hook. f. & *C. thomsonii* Hook. f., F.B.I. 5 : 778. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

\***Bulbophyllum fuscopurpureum** Wight, Ic. 5(1): 6. t. 1651. 1852 ; F.B.I. 5 : 760. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Bulbophyllum gamblei** (Hook. f.) Hook. f., Ic. Pl. 3. t. 2039. 1890 ; F.B.I. 6 : 188. 1890.

*B. leptanthum* var. *gamblei* Hook. f., F.B.I. 5 : 759. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

***Bulbophyllum griffithii*** (Lindl.) Reichb. f. in Walp. Ann. 6 : 247.  
1861 ; F.B.I. 5 : 756. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

***Bulbophyllum guttulatum*** (Hook. f.) Balak. in J. Bombay nat.  
Hist. Soc. 67 : 66. 1970.

*Cirrhopetalum guttulatum* Hook. f., F.B.I. 5 : 776. 1890.

*Distrib.* : Subtropical Himalayas.

*World Distrib.* : Himalayan region.

***Bulbophyllum gymnopus*** Hook. f., Ic. Pl. t. 2040. 1890; Fl. Brit.  
India 5 : 764. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

***Bulbophyllum helenae*** (Kze.) J. J. Sm. in Bull. Jard. Bot.  
Buitenz. Ser. 2. 8 : 24. 1912.

*Cirrhopetalum cornutum* Lindl. ; F.B.I. 5 : 774. 1890.

*Distrib.* : Subtropical Himalayas.

*World Distrib.* : Southern Asia.

***Bulbophyllum hirtum*** (J. E. Sm.) Lindl., Gen. & Sp. Orch. 51.  
1830 ; F.B.I. 5 : 762. 1890.

*Distrib.* : Subtropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas, South East Asia.

***Bulbophyllum hookeri*** (Duthie) J. J. Sm. in Bull. Jard. Bot.  
Buitenz. Ser. 2. 8 : 25. 1912.

*Cirrhopetalum hookeri* Duthie in J. As. Soc. Bengal 71 : 38. 1902.

*Distrib.* : Western & Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

***Bulbophyllum hymenanthum*** Hook. f., Ic. Pl. t. 2046. 1890; Fl.  
Brit. India 5 : 767. 1890.

*Distrib.* : Eastern Himalayas & North eastern India,

*World Distrib.* : India & Thailand.

\***Bulbophyllum kaitiense** (Wight) Reichb. f. in Walp. Ann. 6 : 262. 1861.

*Cirrhopetalum nilgherrense* Wight ; F.B.I. 5 : 778. 1890.

*Distrib.* : Peninsular India ; endemic.

**Bulbophyllum khasianum** Griff., Not. Pl. 3 : 284. 1851 ; F.B.I. 5 : 765. 1890.

*B. conchiferum* Reichb. f. ; F.B.I. 5 : 766. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

†\***Bulbophyllum kingii** Hook. f., Fl. Brit. India 5 : 760. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

**Bulbophyllum leopardinum** (Wall.) Lindl., Gen. & Sp. Orch. 48. 1830 ; F.B.I. 5 : 756. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

var. **tuberculatum** Balak. & Chowd. in Bull. bot. Surv. India 9: 90. 1967.

*Distrib.* : North eastern India.

*World Distrib.* : India, Bhutan.

**Bulbophyllum lepidum** (Bl.) J. J. Sm. in Pl. Buitenz. 6 : 471. fig. 361. 1905.

*Cirrhopetalum gamosepalum* Griff. ; F.B.I. 5 : 774. 1890.

*Distrib.* : Andaman islands.

*World Distrib.* : South East Asia.

\***Bulbophyllum leptanthum** Hook. f., Fl. Brit. India 5 : 759. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Bulbophyllum lilacinum** Ridl. in J. Linn. Soc. 32 : 276. 1896.

*Distrib.* : Andaman islands.

*World Distrib.* : South East Asia.

**Bulbophyllum lobbii** Lindl. in Bot. Reg. Sub t. 29. 1847 ; F.B.I. 5 : 755. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

- Bulbophyllum moniliforme** Par. & Reichb. f. in Trans. Linn. Soc. 30 : 151. 1874 ; F.B.I. 5 : 757. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia.
- \***Bulbophyllum mysorensis** (Rolfe) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. 8 : 26. 1912.  
*Cirrhopetalum mysorense* Rolfe in Bull. Misc. Inform. 34. 1845.  
*Distrib.* : Peninsular India ; endemic.
- \***Bulbophyllum nilgherrense** Wight, Ic. 5(1) : 6. t. 1650. 1852 ; F.B.I. 5 : 761. 1890.  
*Distrib.* : Peninsular India ; endemic.
- †\***Bulbophyllum nodosum** (Rolfe) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. 8 : 23. 1912.  
*Cirrhopetalum nodosum* Rolfe in Kew Bull. 35. 1895.  
*Distrib.* : Peninsular India ; endemic.
- \***Bulbophyllum obrienianum** Rolfe in Gard. Chron. 2 : 352. 1892.  
*Distrib.* : Eastern Himalayas ; endemic.
- Bulbophyllum odoratissimum** (J. E. Sm.) Lindl. Gen. & Sp. Orch. 55. 1830 ; F.B.I. 5 : 758. 1890.  
*Distrib.* : Subtropical Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- Bulbophyllum ornatissimum** (Reichb. f.) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. 8 : 26. 1912.  
*Cirrhopetalum ornatissimum* Reichb. f. ; F.B.I. 5 : 773. 1890. p.p.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Burma.
- †\***Bulbophyllum parryae** Summer. in The Lakhers 605. 1932.  
*Distrib.* : North eastern India ; endemic.
- Bulbophyllum pectinatum** Finet in Bull. Soc. bot. Fr. 44 : 268. Pl. 7. 1897.  
*B. spectabile* Rolfe in Kew Bull. 193. 1898.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Bulbophyllum picturatum** (Lodd.) Reichb. f. in Walp. Ann. 6 : 262. 1861 ; F.B.I. 5 : 775. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

†\***Bulbophyllum piluliferum** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 76. t. 104. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

**Bulbophyllum polyrhizum** Lindl., Gen. & Sp. Orch. 53. 1830 ; F.B.I. 5 : 767. 1890.

*Distrib.* : Himalayas.

*World Distrib.* : Southern Asia.

**Bulbophyllum protractum** Hook. f., Fl. Brit. India 5 : 759. 1890.

*Distrib.* : Eastern Himalayas & Andaman islands.

*World Distrib.* : Southern Asia.

\***Bulbophyllum proudlockii** (King & Pantl.) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. 8 : 27. 1912.

*Cirrhopetalum proudlockii* King & Pantl. in J. As. Soc. Bengal 66 : 588. 1897.

*Distrib.* : Peninsular India ; endemic.

**Bulbophyllum putidum** (Teijsm. & Binnend.) J. J. Sm. in Bull. Jard. Bot. Buitenz. Ser. 2. : 27. 1912.

*Cirrhopetalum appendiculatum* Rolfe in Kew Bull. 148. 1901.

*C. ornatissimum* Reichb. f.; F.B.I. 5 : 773. 1890 p.p.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

\***Bulbophyllum rauii** Arora in Bull. bot. Surv. India 11 : 440. 1969. (1971).

*Distrib.* : Western Himalayas ; endemic.

**Bulbophyllum repens** Griff., Not. Pl. 3 : 293. 1851 ; F.B.I. 5 : 765. 1890.



*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

**Bulbophyllum reptans** (Lindl.) Lindl., Gen. & Sp. Orch. 51. 1830 ;  
F.B.I. 5 : 768. 1890.

*Distrib.* : Subtropical & temperate Himalayas.

*World Distrib.* : South East Asia.

**Bulbophyllum retusiusculum** Reichb. f. in Gard. Chron. 1182.  
1869 ; F.B.I. 5 : 776. 1890.

*Cirrhopetalum wallichii* Lindl. ; F.B.I. 5 : 776. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Bulbophyllum rigidum** King & Pantl. in Ann. Roy. Bot. Gard.  
Calcutta 8 : 69. t. 94. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

**Bulbophyllum rolfei** (Kuntze) Seidenf. in Dansk Bot. Ark. 33(3) :  
149. 1979.

*Cirrhopetalum parvulum* Hook. f., F.B.I. 5 : 778. 1890.

*C. dyerianum* King & Pantl. in J. As. Soc. Bengal 64 : 35. 1895.

*Distrib.* : Temperate Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas and Southern Asia.

†\***Bulbophyllum rotschildianum** (O' Brien) J. J. Sm. in Bull.  
Jard. Bot. Buitenz. Ser. 2. 8 : 27. 1912.

*Cirrhopetalum rotschildianum* O' Brien in Gard Chron. 2 : 608. 1895.

*Distrib.* : Eastern Himalayas ; endemic.

†\***Bulbophyllum roxburghii** (Lindl.) Reichb. f. in Walp. Ann.  
6 : 263. 1861.

*Cirrhopetalum roxburghii* Lindl ; F.B.I. 5 : 774. 1890.

*Distrib.* : Eastern India ; endemic.

**Bulbophyllum sarcophyllum** (King & Pantl.) J. J. Sm. in Bull.  
Jard. Bot. Buitenz. Ser 2. 8 : 27. 1912.

*Cirrhopetalum sarcophyllum* King & Pantl. in J. As. Soc. Bengal 64 :  
335. 1895.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

**Bulbophyllum scabratum** Reichb. f. in Walp. Ann. 6 : 259. 1861 ;  
F.B.I. 5 : 775. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Bulbophyllum secundum** Hook. f., Fl. Brit. India 5 : 764. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Bulbophyllum sessile** (Koen.) J. J. Sm. in Fl. Buitenz. 6 : 448.  
fig. 340. 1905.

*B. clandestinum* Lindl. ; F.B.I. 5 : 753. 1890.

*Distrib.* : Andaman islands.

*World Distrib.* : South East Asia.

\***Bulbophyllum sikkimensis** (King & Pantl.) J. J. Sm. in Bull.  
Jard. Bot. Buitenz. Ser. 2. 8 : 28. 1912.

*Cirrhopetalum sikkimensis* King & Pantl. in Ann. Roy. Bot. Gard.  
Calcutta 8 : 90. t. 125. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

**Bulbophyllum spathulatum** (Rolfe) Seidenf. in Bot. Tidsskr. 65 :  
347. 1970.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

**Bulbophyllum striatum** (Griff.) Reichb. f. in Walp. Ann. 6 : 257.  
1861 ; F.B.I. 5 : 755. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Bulbophyllum thomsonii** Hook. f., Fl. Brit. India 5 : 764. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

\***Bulbophyllum tremulum** Wight, Ic. 6(1) : 20. t. 1749. 1852. ;  
F.B.I. 5 : 763. 1890.

*Distrib.* : Peninsular India ; endemic.

**Bulbophyllum tricornis** Seidenf. & Smitin., Orch. Thailand. 4.2 : 806. 1965.

*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

**Bulbophyllum triste** Reichb. f. in Walp. Ann. 6 : 253. 1861 ; F.B.I. 5 : 768. 1890.

*B. micranthum* Hook. f. & *B. alopecurus* Reichb. f., F.B.I. 5 : 768. & 770. 1890.

*Distrib.* : Western & Eastern Himalayas, Central & North eastern India.

*World Distrib.* : Southern Asia.

**Bulbophyllum umbellatum** Lindl., Gen. & Sp. Orch. 56. 1830. F.B.I. 5 : 776. 1890.

*Distrib.* : Subtropical Himalayas.

*World Distrib.* : South East Asia.

**Bulbophyllum viridiflorum** (Hook. f.) Schltr., Orch. 4 : 108. 1910.

*Cirrhopetalum viridiflorum* Hook. f., F.B.I. 5 : 779. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Bulbophyllum wallichii** (Lindl.) Reichb. f. in Walp. Ann. 6 : 259. 1861.

*Cirrhopetalum refractum* sensu Hook. f., F.B.I. 5 : 779. 1890. p.p.

*Distrib.* : Subtropical Himalayas.

*World Distrib.* : South East Asia.

**Bulbophyllum xylophyllum** Par. & Reichb. f. in Trans. Linn. Soc. 30 : 151. 1874 ; F.B.I. 5 : 766. 1890.

*B. gracilipes* King & Pantl. in J. As. Soc. Bengal 65 : 119. 1896.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

**Bulbophyllum yoksuneense** J. J. Sm. in Bull. Jard. Bot. Butienz. Ser. 2. 8 : 29. 1912.

*Cirrhopetalum brevipes* Hook. f., F.B.I. 5 : 777. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

BULLEYIA Schltr.

**Bulleyia yunnauensis** Schltr. in Not. Roy. Bot. Gard. Edinburgh  
5 : 108. 1912.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

CALANTHE R. Br.

\***Calanthe alismaefolia** Lindl., Fol. Orch. 8. 1854 ; F.B.I. 5 :  
849. 1890.

*Distrib.* : Eastern Himalayas and North eastern India ; endemic.

**Calanthe alpina** Lindl., Fol. Orch. 4. 1854 ; F.B.I. 5 : 850. 1890.

*Distrib.* : Western and Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

**Calanthe angusta** Lindl., Fol. Orch. 7. 1854 ; F.B.I. 5 : 849. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : South East Asia.

**Calanthe biloba** Lindl., Fol. Orch. 3. 1854 ; F.B.I. 5 : 848. 1890.

(incl. var. *diptera* Hook. f., *obtusata* Par. & Reichb. f. and *treutleri*  
Hook. f.).

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Calanthe brevicornu** Lindl., Gen. & Sp. Orch. 251. 1833 ; F.B.I.  
5 : 848. 1890. (incl. var. *wattii* Hook. f.).

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas and Southern Asia.

**Calanthe chloroleuca** Lindl., Fol. Orch. 10. 1854 ; F.B.I. 5 : 852.  
1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

- Calanthe densiflora** Lindl., Gen. & Sp. Orch. 250. 1833 ; F.B.I. 5 : 855. 1890.  
*C. clavata* Lindl. ; F.B.I. 5 : 854. 1890.  
*Distrib.* : Eastern Himalayas and North eastern India.  
*World Distrib.* : South East Asia.
- Calanthe gracilis** Lindl., Gen. & Sp. Orch. 251. 1833 ; F.B.I. 5 : 855. 1890.  
*C. longipes* Hook. f., F.B.I. 6 : 195. 1890.  
*Distrib.* : Eastern Himalayas and North eastern India.  
*World Distrib.* : South East Asia.
- † \***Calanthe herbacea** Lindl., Fol. Orch. 10. 1854 ; F.B.I. 5 : 852. 1890.  
*Distrib.* : Eastern Himalayas ; endemic.
- Calanthe manni** Hook. f., Fl. Brit. India 5 : 850. 1890.  
*Distrib.* : Western and Eastern Himalayas, North eastern India.  
*World Distrib.* : India, Central Himalayas.
- Calanthe masuca** (D. Don) Lindl., Gen. & Sp. Orch. 249. 1833 ; F.B.I. 5 : 850. 1890.  
*C. masuca* var. *fulgens* (Lindl.) Hook. f. 1.c.  
*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : Central Himalayas, South East Asia and the Pacific islands.
- var. **purpurea** (Lindl.) Rao & Rathore nov. comb.  
*C. purpurea* Lindl. Gen. & Sp. Orch. 249. 1833 ; F.B.I. 5 : 851. 1890.  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka.
- Calanthe pachystalix** Hook. f., Fl. Brit. India 5 : 850. 1890.  
*Distrib.* ; Western Himalayas.  
*World Distrib.* : Central Himalayas and South East Asia.
- Calanthe plantaginea** Lindl., Gen. & Sp. Orch. 250. 1833 ; F.B.I. 5 : 853. 1890.

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††From Mr. S. R. Rathore (Personal communication).

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Central Himalayas.

**Calanthe puberula** Lindl., Gen. & Sp. Orch. 252. 1833 ; F.B.I. 5 : 848. 1890.

*Distrib.* : Subtropical Western and Eastern Himalayas, North eastern India.

*World Distrib.* : India, Central Himalayas.

**Calanthe tricarinata** Lindl., Gen. & Sp. Orch. 252. 1833 ; F.B.I. 5 : 847. 1890.

*Distrib.* : Western Himalayas.

*World Distrib.* : Central Himalayas, South East Asia.

**Calanthe triplicata** (Willemet) Ames in Philipp. J. Sci. 2 : 326. 1907.

*C. veratrifolia* (Willd.) Ker-Gawl. and *C. odora* Griff. ; F.B.I. 5 : 851 & 853. 1890.

*C. elytroglossa* Hook. f. & *C. diploxiphion* Hook. f., F.B.I. 5 : 853 & 849. 1890.

*World Distrib.* : Widespread from India to Japan, Australia and the Pacific islands.

**Calanthe trulliformis** King & Pantl. in J. As. Soc. Bengal 64 : 337. t. 2. 1895.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

†\***Calanthe uncata** Lindl., Fol. Orch. 6. 1854 ; F.B.I. 5 : 853. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

†\***Calanthe whiteana** King & Pantl. in J. As. Soc. Bengal 65 : 121. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

#### CEPHALANTHERA Rich.

**Cephalanthera longifolia** (L.) Fritsch in Oest. Bot. Zeitschr. 38 : 81. 1888.

*C. ensifolia* Rich. ; F.B.I. 6 : 125. 1890.

*World Distrib.* : Widespread in Europe, Northern Asia, North Africa & temperate Himalayas.

†\***Cephalanthera thomsoni** Reichb. f. in *Linnaea* 41 : 54. 1877 ;  
F.B.I. 6 : 125. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

CERATOSTYLIS Blume

**Ceratostylis himalaica** Hook. f., *Fl. Brit. India* 5 : 826. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Ceratostylis subulata** Bl., *Bijdr.* 206. 1825.

*C. teres* Reichb. f. ; F.B.I. 5 : 825. 1890.

*Distrib.* : Eastern Himalayas, North eastern India & Nicobar islands.

*World Distrib.* : South East Asia.

CHEIROSTYLIS Blume (also see DIDYMOPLEXIS and MYRMECHIS)

**Cheirostylis flabellata** Wight, *Ic.* 5 (1) : 16. 1852 ; F.B.I. 6 : 105.  
1890. p.p.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Cheirostylis griffithii** Lindl. in *J. Linn. Soc.* 1 : 188. 1857 ; F.B.I.  
6 : 105. 1890.

*Distrib.* : Western Himalayas & North eastern India.

*World Distrib.* : Pakistan, Central Himalayas & Southern Asia.

**Cheirostylis parviflora** Lindl. in *Bot. Reg. Misc.* 20. 1839 ; F.B.I.  
6 : 105. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Cheirostylis pusilla** Lindl., *Gen. & Sp. Orch.* 489. 1840 ; F.B.I.  
6 : 105. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Thailand.

## CHILOSCHISTA Lindl.

**Chiloschista lunifera** (Reichb. f.) J. J. Sm. ex Holtt. in Kew Bull. 14 : 273. 1960.

*Sarcophilus luniferus* Hook. f., F.B.I. 6 : 37. 1890.

*C. glandulosa* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 488. 1932.

*Distrib.* : Eastern Himalayas & Peninsular India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Chiloschista pusilla** (Koen.) Schltr., Fedde. Reper. 4 : 275. 1919.

*Sarcophilus wightii* Hook. f., F.B.I. 6 : 37. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Chiloschista usneoides** (D. Don) Lindl. in Bot. Reg. 18 :

Sub t. 1522. 1832 ; F.B.I. 6 : 37. 1890.

*Distrib.* : Tropical Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

## CHRYSOGLOSSUM Blume (also see DIGLYPHOSA)

†\***Chrysoglossum assamicum** Hook. f., Fl. Brit. India 5 : 784. 1890.

*Distrib.* : North eastern India ; endemic.

**Chrysoglossum erraticum** Hook. f., Fl. Brit. India 5 : 784. 1890.

*Distrib.* : Tropical Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

**Chrysoglossum maculatum** (Thw.) Hook. f., Fl. Brit. India 5 : 784. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

## CIRRHOPETALUM Lindl. (see BULBOPHYLLUM)

## CLEISOCENTRON Bruhl

**Cleisocentron trichromum** (Reichb. f.) Bruhl, Guide Orch. Sikkim 137. 1926.



*Saccolabium trichromum* Reichb. f. ; F.B.I. 6 : 65. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

CLEISOSTOMA Blume (also see POMATOCALPA, ROBIQUETIA and TRICHOGLOTTIS)

**Cleisostoma appendiculatum** (Lindl.) Bentham & Hook. f. ex Jackson, Index Kew. 1 : 555. 1895.

*Sarcanthus appendiculatus* (Lindl.) Par. ; F.B.I. 6 : 67. 1890.

*Distrib.* : Eastern India & North eastern India.

*World Distrib.* : Southern Asia.

**Cleisostoma arietinum** (Reichb. f.) Garay in Bot. Mus. Leaf. Harv. 23. 4 : 169. 1972.

*Sarcanthus arietinus* Reichb. f. ; F.B.I. 6 : 70. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Cleisostoma aspersum** (Reichb. f.) Garay in Bot. Mus. Leaf. Harv. 23. 4 : 169. 1972.

*Sarcanthus aspersus* Reichb. f. & *C. bicuspidatum* Hook. f. ; F.B.I. 6 : 70 & 75. 1890.

*S. khasiaensis* Tang & Wang in Act. Phytotax. Peking 1, 1 : 98. 1951.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Burma & Thailand.

**Cleisostoma discolor** Lindl. in Bot. Reg. 31. Misc, 59. 1845 ; F.B.I. 6 : 75. 1890.

*Sarcanthus macrodon* Reichb. f. & *Saccolabium rostellatum* Hook. f., F.B.I. 6 : 70 & 59. 1890.

*Sarcanthus auriculatus* Rolfe in Kew Bull. 9. 1895.

*Distrib.* : Peninsular India & Eastern Himalayas.

*World Distrib.* : South East Asia.

**Cleisostoma elegans** Seidenf. in Dansk Bot. Ark. 29 : 46. 1975.

*Sarcanthus williamsonii* sensu Reichb. f. (1874) ; F.B.I. 6 : 67. 1890.

*Distrib.* : Andaman islands.

*World Distrib.* : South East Asia.

**Cleisostoma filiforme** (Lindl.) Garay in Bot. Mus. Leaf. Harv. 23. 4 : 171. 1972.

*Sarcanthus filiformis* Lindl. ; F.B.I. 6 : 66. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia,

**Cleisostoma paniculatum** (Ker—Gawl.) Garay in Bot. Mus. Leaf. Harv. 23. 4 : 173. 1972.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Cleisostoma parishii** (Hook. f.) Garay in Bot. Mus. Leaf. Harv. 23. 4 : 173. 1972.

*Sarcanthus parishii* Hook. f., F.B.I. 6 : 69. 1890.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Burma.

**Cleisostoma racemiferum** (Lindl.) Garay in Bot. Mus. Leaf. Harv. 23. 4 : 173. 1972.

*Sarcanthus pallidus* Lindl. & *S. lorifolius* Par. ex. Hook. f., F.B.I. 6 : 68 & 69. 1890.

*S. affinis* Wall. ex Hook. f. in Ann. Roy. Bot. Gard. Calcutta 5 : 53. 1895 in synonymy.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Cleisostoma ramosum** Hook. f., Fl. Brit. India. 6 : 72. 1890.

*Distrib.* : Tropical Eastern Himalayas & Eastern India.

*World Distrib.* : India, Burma.

**Cleisostoma sagittiforme** Garay in Bot. Mus. Leaf. Harv. 23. 4 : 174. 1972.

*Sarcanthus sagittatus* King & Pantl. in J. As. Soc. Bengal 66 : 595. 1897.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Cleisostoma simondii** (Gagnep.) Seidenf. in Dansk Bot. Ark. 29: 66. 1975.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

**Cleisostoma striatum** (Reichb. f.) Garay in Bot. Mus. Leaflet. Harv. 23. 4 : 175. 1972.

*Echinoglossum striatum* Reichb. f. & *C. brevipes* Hook. f., F.B.I. 6 : 76 & 73, 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Cleisostoma subulatum** Bl., Bijdr. 363. 1825.

*Sarcanthus secundus* Griff. & *S. oxyphyllus* Wall. ex Lindl.; F.B.I. 6: 67 & 70. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Cleisostoma tenuifolium** (L.) Garay in Bot. Mus. Leaflet. Harv. 23. 4 : 175. 1972.

*Sarcanthus peninsularis* Dalz. ; F.B.I. 6 : 67. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka & Thailand.

\***Cleisostoma tricallosum** Hegde & Rao in Orch. Rev. 54. 1983.

*Distrib.* : Eastern Himalayas ; endemic.

**Cleisostoma uraiense** (Hayata) Garay & Sweet, Orch. S. Ryukyu Isl. 156. 1974.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

**Cleisostoma williamsonii** (Reichb. f.) Garay in Bot. Mus. Leaflet. Harv. 23. 4 : 176. 1972.

*Sarcanthus williamsonii* Reichb. f. ; F.B.I. 6 : 67. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

## COELOGYNE Lindl. (also see NEOGYNA and PEEIONE)

†\***Coelogyne albo-lutea** Rolfe in Kew Bull. 414. 1908.

*Distrib.* : Western Himalayas ; endemic.

**Coelogyne assamica** Lindl. & Reichb. f. in Bert. Allg. Gaert. 25 : 403. 1857 ; F.B.I. 5 : 833. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Coelogyne barbata** Griff., Not. Pl. 72. 1848 ; F.B.I. 5 : 839. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan & Burma.

**Coelogyne breviscapa** Lindl. Fol. Orch. 4. 1854 ; F.B.I. 5 : 833. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Coelogyne corymbosa** Lindl., Fol. Orch. 7. 1854 ; F.B.I. 5 : 834. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Coelogyne cristata** Lindl. in Coll. Bot. Sub t. 33 (Testus). 1821 ; F.B.I. 5 : 829. 1890.

*World Distrib.* : Temperate Himalayas & Tibet.

**Coelogyne fimbriata** Lindl. in Bot. Reg. 11 : t. 868. 1825 ; F.B.I. 5 : 836. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Coelogyne flaccida** Lindl., Gen. & Sp. Orch. 39. 1830 ; F.B.I. 5 : 829. 1890.

*Distrib.* : Subtropical Himalayas.

*World Distrib.* : South East Asia.

**Coelogyne fuliginosa** W. J. Hooker in Bot. Mag. 75 : t. 4440. 1849 ; F.B.I. 5 : 836. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Burma.

**Coelogyne fuscescens** Lindl., Gen. & Sp. Orch. 41. 1830 ; F.B.I. 5 : 833. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

var. **brunnea** (Lindl.) Lindl., Fol. Orch. 11. 1854.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Coelogyne glandulosa** Lindl., Fol. Orch. 6. 1854 ; F.B.I. 5 : 835. 1890.

*Distrib.* : Peninsular India ; endemic.

\*var. **bournei** Das & Jain in Bull. bot. Surv. India 18: 241. 1976 (1979).

*Distrib.* : Peninsular India ; endemic.

\*var. **sathyanarayanae** Das & Jain, l.c.

*Distrib.* : Peninsular India ; endemic.

\***Coelogyne griffithii** Hook. f., Fl. Brit. India 5 : 838. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

\***Coelogyne hitendrae** Das & Jain in Orch. Rev. 86 : 195. 1978.

*Distrib.* : North eastern India ; endemic.

**Coelogyne holochila** Hunt & Summer. in Kew Bull. 20 : 52. 1966.

*C. elata* sensu Hook. f., F.B.I. 5 : 838. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Burma.

**Coelogyne longipes** Lindl., Fol. Orch. 10. 1854; F.B.I. 5: 839. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Coelogyne micrantha** Lindl. in Gard. Chron. 173. 1855 ; F.B.I. 5 : 836. 1890 & 6 : 184. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Burma.

\***Coelogyne mossiae** Rolfe emend. Das & Jain in Orch. Rev. 86 : 195-199. 1978.

*Distrib.* : Peninsular India ; endemic.

\***Coelogyne nervosa** A. Rich. in Ann. Sci. nat. Ser. 2. 15 : 16. 1841 ; F.B.I. 5 : 835. 1890.

*Distrib.* : Peninsular India ; endemic.

**Coelogyne nitida** (Wall. ex Don) Lindl., Gen. & Sp. Orch. 40. 1830. (excl. syn. *Cymbidium nitidum* Roxb.) ; F.B.I. 5 : 837. 1890.

*C. ochracea* Lindl. ; F.B.I. 5 : 831. 1890.

*Distrib.* : Temperate Himalayas.

*World Distrib.* : South East Asia.

**Coelogyne occultata** Hook. f., Fl. Brit. India 5 : 832. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

**Coelogyne odoratissima** Lindl., Gen. & Sp. Orch. 41. 1830 ; F.B.I. 5 : 834. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

\*var. **angustifolia** (Rich.) Lindl., Fol. Orch. 5. 1854.

*Distrib.* : Peninsular India ; endemic.

**Coelogyne ovalis** Lindl. in Bot. Reg. 24 : 91. Misc. 191. 1838 ; F.B.I. 5 : 836. 1890.

*Distrib.* : Temperate Himalayas.

*World Distrib.* : Southern Asia.

**Coelogyne prolifera** Lindl., Gen. & Sp. Orch. 40. 1830 (excl. Hooker's coll. Khasi hills) ; F.B.I. 5 : 838. 1890.

*C. flavida* Wall. ex Lindl. ; F.B.I. 5 : 839. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

**Coelogyne punctulata** Lindl. in Coll. Bot. sub t. 33 (Textus) 1821 ; F.B.I. 5 : 837. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

\*f. **brevifolia** (Lindl.) Das & Jain in Fasc. Fl. India 5 : 25. 1980.

*Distrib.* : North eastern India ; endemic.

**Coelogyne raizadae** Jain & Das in Proc. Ind. Acad. Sci. 87B : 119. 1978.

*C. longipes* sensu King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 136. t. 189. 1898.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

**Coelogyne rigida** Par. & Reichb. f. in Trans. Linn. Soc. 30 : 146. 1874 ; F.B.I. 5 : 839. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Coelogyne rossiana** Reichb. f. in Gard. Chron. 2 : 80. 1884 ; F.B.I. 5 : 843. 1890. & 6 : 195. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Burma.

**Coelogyne schultesii** Jain & Das in Proc. Ind. Acad. Sci. 87B : 119. 1978.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Coelogyne stricta** (Don) Schltr., Fedde Reper. Beih. 6 : 184. 1919.

*C. elata* Lindl.; F.B.I. 5 : 838. 1890 (excl. cit. Bot. Mag. 83 t. 5001. 1857).

*Distrib.* : Tropical Himalayas.

*World Distrib.* : India, Nepal and Burma.

**Coelogyne suaveolens** (Lindl.) Hook. f., Fl. Brit. India 5 : 832. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Coelogyne thailandica** Seidenf. in Dansk Bot. Ark. 28(4) : 46. 1975.

*Distrib.* : Andaman islands.

*World Distrib.* : India, Thailand.

†\***Coelogyne treutleri** Hook. f., Fl. Brit. India 5 : 837. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

**Coelogyne uniflora** Lindl., Gen. & Sp. Orch. 42. 1830 ; F.B.I. 5 : 842. 1890.

*Distrib.* : Eastern Himalayas, North eastern & Peninsular India.

*World Distrib.* : India, Central Himalayas & Burma.

**Coelogyne viscosa** Reichb. f. in Berl. Allg. Gartenz. 24 : 218. 1856 ; F.B.I. 5 : 832. 1890.

*C. graminifolia* Par. & Reichb. f. ; F.B.I. 5 : 831. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

#### CORALLORRHIZA Chatel.

**Corallorrhiza trifida** Chatelain, Speum. Inaug. Corallorh. 8. 1760.

*C. innata* Br. ; F.B.I. 5 : 710. 1890.

*World Distrib.* : Temperate regions of northern hemisphere.

#### CORYBAS Salisb.

\***Corybas himalaica** (King & Pantl.) U. C. Pradhan, Ind. Orch. I : 143. 1976.

*Corysanthes himalaica* King & Pantl. in J. As. Soc. Bengal 65 : 128. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

\***Corybas purpureus** Joseph & Yoganar. in Ind. For. 93 : 815. 1967.

*Distrib.* : North eastern India ; endemic.

#### CORYMBORKIS Thou.

**Corymborkis veratrifolia** (Reinw.) Bl., Col. Orch. Arch. Ind. 125.

Pl. 42-43. 1859 ; F.B.I. 6 : 91. 1890.



*Distrib.* : Subtropical Eastern Himalayas, North eastern & Peninsular India, Andaman islands.

*World Distrib.* : South East Asia.

COTTONIA Wt.

**Cottonia peduncularis** (Lindl.) Reichb. f., Cat. Orch. Schiller 52. 1857 ; F.B.I. 6 : 26. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

CREMASTRA Lindl.

**Cremastra appendiculata** (D. Don) Makino in Bot. Mag. Tokyo 18 : 24. 1904.

*C. wallichiana* Lindl. ; F.B.I. 6 : 16. 1890.

*World Distrib.* : Temperate Himalayas to Japan.

CRYPTOCHILUS Wall.

**Cryptochilus lutea** Lindl. in J. Linn. Soc. 3 : 20. 1859 ; F.B.I. 5 : 827. 1890.

*Distrib.* : Subtropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : India, Central Himalayas.

**Cryptochilus sanguinea** Wall. Tent. Fl. Nepal. 36. t. 26 1826 : F.B.I. 5 : 827. 1890.

*Distrib.* : Subtropical Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

CRYPTOSTYLIS R. Br.

**Cryptostylis arachnites** (Bl.) Hassk. in Cat. Bog. 48. 1844 ; F.B.I. 6 : 118. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

## CYMBIDIUM Sw.

**Cymbidium aloifolium** (L.) Sw. in Nov. Act. Soc. Sci. Upsal. 6 :

73. 1799 ; F.B.I. 6 : 10. 1890. p.p.

*C. bicolor* Hook. f., F.B.I. 6 : 11. 1890.

*C. pendulum* (Roxb.) Sw. ; King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 188. t. 251. 1898.

*Distrib.* : Throughout India.

*World Distrib.* : Central Himalayas & South East Asia.

†\***Cymbidium cochleare** Lindl. in J. Linn. Soc. 3 : 28. 1859.

*Cyperorchis cochleare* (Lindl.) Benth. ; F.B.I. 6 : 15. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Cymbidium cyperifolium** Lindl., Gen. & Sp. Orch. 163. 1833 ;

F.B.I. 6 : 13. 1890. (excl. *C. haematodes* Lindl.).

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : South East Asia.

**Cymbidium dayanum** Reichb. f. in Gard. Chron. 710. 1869.

*C. eburneum* var. *dayanum* (Reichb. f.) Hook. f., F.B.I. 6 : 12. 1890.

*C. simonsianum* King & Pantl. in J. As. Soc. Bengal 64 : 338. 1895.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : South East Asia.

**Cymbidium devonianum** Paxt. in Mag. Bot. 10 : 97. *C. icon* 1843 ;

F.B.I. 6 : 10. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : India, Central Himalayas.

**Cymbidium eburneum** Lindl. in Bot. Reg. 10 : t. 67. 1847 ; F.B.I.

6 : 11. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : India, Central Himalayas.

**Cymbidium elegans** Lindl., Gen. & Sp. Orch. 163. 1833.

*Cyperorchis elegans* Bl. ; F.B.I. 6 : 14. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : India, Central Himalayas.

**Cymbidium ensifolium** (L.) Sw. in Nov. Act. Soc. Sci. Upsal.  
6 : 77. 1799 ; F.B.I. 6 : 13. 1890.

*C. munronianum* King & Pantl. in J. As. Soc. Bengal 64 : 338. 1895.

*Distrib.* : Western & Eastern Himalayas, North eastern and Penin-  
sular India.

*World Distrib.* : South East Asia.

† \***Cymbidium gammieanum** King & Pantl. in J. As. Soc. Bengal  
64 : 339. 1895.

*Distrib.* : Eastern Himalayas ; endemic.

**Cymbidium hookerianum** Reichb. f. in Gard. Chron. 1866: 7.  
1866.

*C. grandiflorum* Griff. ; F.B.I. 6 : 12. 1890.

*Distrib.* : Eastern Himalayas and Eastern India.

*World Distrib.* : India, Central Himalayas and Tibet.

**Cymbidium iridioides** D. Don, Prodr. Fl. Nepal 36. 1825 ; F.B.I.  
6 : 14. 1890.

*C. giganteum* Lindl. non Sw. ; F.B.I. 6 : 12. 1890.

*Distrib.* : Western Himalayas and North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Cymbidium lancifolium** Hook., Exot. Fl. 1 : t. 81. 1823 ; F.B.I.  
6 : 9. 1890.

*Distrib.* : Subtropical Eastern Himalayas and North eastern India.

*World Distrib.* : South East Asia & Far East.

**Cymbidium longifolium** D. Don, Prodr. Fl. Nepal. 36. 1825 ;  
F.B.I. 6 : 13. 1890.

*Distrib.* : Western and Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Cymbidium lowianum** Reichb. f. in Gard. Chron. 11 : 404. t. 56.  
1859.

*C. giganteum* Lindl. var. *lowiana* Reichb. f. ; F.B.I. 6 : 12. 1890.

*Distrib.* : Western and Eastern Himalayas.

*World Distrib.* : Southern Asia.

\***Cymbidium mackinnonii** Duthie in J. As. Soc. Bengal 71 : 40. 1902.

*Distrib.* : Western Himalayas ; endemic.

**Cymbidium macrorhizon** Lindl., Gen. & Sp. Orch. 162. 1833 ; F.B.I. 6 : 9. 1890.

*Distrib.* : Western and Eastern Himalayas, North eastern India.

*World Distrib.* : Southern Asia.

\***Cymbidium mastersii** Lindl. in Bot. Reg. 8. n.s. t. 50. 1845.

*Cyperorchis mastersii* (Lindl.) Benth. ; F.B.I. 6 : 15. 1890.

*Distrib.* : Eastern Himalayas and North eastern India ; endemic.

**Cymbidium pubescens** Lindl., in Bot. Reg. 26 : Misc. 27. t. 38. 1841 ; F.B.I. 6 : 11. 1890.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia and the Pacific islands.

**Cymbidium tigrinum** Hook. f., Fl. Brit. India 6 : 9. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

\***Cymbidium whiteae** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 193. t. 258. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

#### CYPERORCHIS Blume (see CYMBIDIUM)

#### CYPRIPEDIUM L. (also see PAPHIOPEDILUM)

**Cypripedium cordigerum** D. Don, Prodr. Fl. Nepal. 37. 1825 ; F.B.I. 6 : 170. 1890.

*World Distrib.* : Temperate Himalayas.

**Cypripedium elegans** Reichb. f. in Flora 560. 1886 ; F.B.I. 6 : 169. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & South East Tibet.

**Cypripedium himalaicum** Rolfe apud Hemsl. in J. Linn. Soc.  
29 : 319. 1892.

*Distrib.* : Western & Eastern Himalayas.

*World Distrib.* : Temperate Himalayas & South East Tibet.

**Cypripedium macranthon** Sw., Act. Holm. 251. 1800 ; F.B.I.  
6 : 170. 1890.

*C. tibeticum* King ex Rolfe in J. Linn. Soc. 29 : 320. 1892.

*Distrib.* : Alpine Western & Eastern Himalayas.

*World Distrib.* : From arctic Northern Europe through Central Himalayas to Eastern Asia & Far East.

DACTYLORHIZA Neck. ex Nevski.

**Dactylorhiza hatagirea** (D. Don) Soo, Nom. Nov. Gen. Dactylorhiza 4. 1962.

*Orchis latifolia* auct. non L., Hook. f., F.B.I. 6 : 127. 1890.

*Distrib.* : Western Himalayas & North eastern India.

*World Distrib.* : Europe to North Africa, Central, West & South East Asia.

DENDROBIUM Sw. (also see EPIGENEIUM and FLICKINGERIA)

**Dendrobium acinaciforme** Roxb., Fl. Ind. 3 : 487. 1832 ; F.B.I.  
5 : 723. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Eastern Asia.

**Dendrobium aduncum** Wall. in Bot. Reg. 1842. Misc. 62. t. 15.  
1846 ; F.B.I. 5 : 730. 1890.

*Distrib.* : Tropical Eastern Himalayas, Eastern & North eastern India.

*World Distrib.* : India, Bhutan & Burma.

**Dendrobium aggregatum** Roxb., Fl. Ind. 3 : 477. 1832 ; F.B.I.  
5 : 749. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Dendrobium amoenum** Wall. ex Lindl., Gen. & Sp. Orch. 78. 1830. (excl. syn.) ; F.B.I. 5 : 738. 1890.

*World Distrib.* : Tropical Himalayas & Burma.

\***Dendrobium anamalayanum** Chandr., Chandrasek. & Nair in J. Bombay nat. Hist. Soc. 78(3) : 575. 1981.

*Distrib.* : Peninsular India ; endemic.

**Dendrobium anceps** Sw. in Act. Vetensk. Acad. Noya. Hindl. 21 : 246. 1800 ; F.B.I. 5 : 724. 1890.

*Distrib.* : Tropical Eastern Himalayas, North eastern India, Andaman & Nicobar islands.

*World Distrib.* : Central Himalayas & Southern Asia.

**Dendrobium aphyllum** (Roxb.) Fischer in Fl. Madras 3 : 1416. 1928.

*D. pierardi* Roxb., F.B.I. 5 : 738. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, North eastern and Peninsular India.

*World Distrib.* : Central Himalayas & South East Asia.

\***Dendrobium aqueum** Lindl. in Bot. Reg. Misc. 6. t. 54. 1843 ; F.B.I. 5 : 739. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Dendrobium barbatulum** Lindl., Gen. & Sp. Orch. 84. 1830 ; F.B.I. 5 : 719. 1890.

*Distrib.* : Peninsular India ; endemic.

**Dendrobium bensoniae** Reichb. f., Bot. Zeit. 25 : 230. 1867 ; F.B.I. 5 : 739. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Dendrobium bicameratum** Lindl. in Bot. Reg. Misc. 85. 25. 1839 ; F.B.I. 5 : 729. 1890.

*D. bolboflorum* Falc. ex Hook. f., l.c. 729. & 6 : 184. 1890.

*Distrib.* : Western & Eastern Himalayas, Eastern & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

**Dendrobium candidum** Lindl. in Bot. Reg. Misc. 54. 1838 ; F.B.I. 5 : 735. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

**Dendrobium cariniferum** Reichb. f. in Gard. Chron. 611. 1869 ; F.B.I. 5 : 720. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Burma.

\***Dendrobium cathcartii** Hook. f., Fl. Brit. India 5: 727. 1890.

*Distrib.* : Tropical Eastern Himalayas ; endemic.

**Dendrobium chrysanthum** Lindl., Gen. & Sp. Orch. 80. 1830 ; F.B.I. 5 : 747. 1890.

*Distrib.* : Western & Eastern Himalayas and North eastern India.

*World Distrib.* : Tropical Himalayas.

**Dendrobium chryseum** Rolfe in Gard. Chron. 1 : 233. 1888 ; F.B.I. 5 : 748 & 6 : 187. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Bhutan & Bangladesh.

**Dendrobium chrysotoxum** Lindl. in Bot. Reg. Sub t. 19 & 36. 1847; F.B.I. 5 : 750. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Burma.

**Dendrobium crepidatum** Lindl. & Paxt. in Fl. Gard. 1 : 63. f. 45. 1850-51. ; F.B.I. 5 : 740. 1890.

*Distrib.* : Tropical Eastern Himalayas, North eastern & Peninsular India.

*World Distrib.* : India, Central Himalayas.

**Dendrobium cretaceum** Lindl. in Bot. Reg. 33. t. 62. 1847 ; F.B.I. 5 : 736. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Burma.

**Dendrobium crumenatum** Sw. in Act. Holm. 246. 1890 ; F.B.I. 5 : 729. 1890.

*Distrib.* : Andaman & Nicobar islands.

*World Distrib.* : South East Asia.

**Dendrobium crystallinum** Reichb. f. in Gard. Chron. 572. 1868 ; F.B.I. 5 : 739. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Southern Asia.

**Dendrobium cumulatum** Lindl. in Gard. Chron. 756. 1855 ; F.B.I. 5 : 731. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan & Burma.

**Dendrobium denneanum** Kerr. in J. Siam. Soc. nat. Hist. Suppl. 9 : 299. 1933.

*D. clavatum* Wall. ex Lindl. ; F.B.I. 5 : 746. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

**Dendrobium densiflorum** Lindl. in Wall. Pl. As. Rar. 1 : 34. t. 40. 1830 ; F.B.I. 5 : 748. 1890.

*World Distrib.* : Tropical Himalayas & Southern Asia.

**Dendrobium denudans** D. Don, Prodr. Fl. Nepal. 34. 1825 ; F.B.I. 5 : 715. 1890.

*World Distrib.* : Subtropical to temperate Himalayas.

**Dendrobium devonianum** Paxt. in Bot. Mag. 7 : 169. 1840.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : Bhutan & Southern Asia.

**Dendrobium eriaeflorum** Griff., Not. Pl. 3 : 316. 1851 ; F.B.I. 5 : 715. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.



**Dendrobium falconeri** Hook. in Bot. Mag. t. 4944. 1856 ; F.B.I. 5 : 742. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : Bhutan & Southern Asia.

**Dendrobium farmeri** Paxt. in Bot. Mag. 15 : 241. 1849 ; F.B.I. 5 : 750. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : India and Burma.

**Dendrobium fimbriatum** Hook., Exot. Fl. t. 71. 1823 ; F.B.I. 5 : 745. 1890.

*Distrib.* : Subtropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Dendrobium formosum** Roxb. ex Lindl. in Wall. Pl. Asiat. Rar. 34. t. 39. 1830 ; F.B.I. 5 : 721. 1890.

*Distrib.* : Tropical Eastern Himalayas, North eastern India & Andaman islands.

*World Distrib.* : Central Himalayas & Southern Asia.

**Dendrobium gibsonii** Lindl. in Paxt. Bot. Mag. 5 : 169. 1838 ; F.B.I. 5 : 746. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

**Dendrobium haemoglossum** Thw., Enum. Pl. Zey. 429. 1864 ; F.B.I. 5 : 727. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

\***Dendrobium herbaceum** Lindl. in Bot. Reg. Misc. 69. 1840 ; F.B.I. 5 : 719. 1890.

*Distrib.* : Eastern & Peninsular India ; endemic.

**Dendrobium heterocarpum** Wall. ex Lindl., Gen. & Sp. Orch. 78. 1830 ; F.B.I. 5 : 737. 1890.

*Distrib.* : Tropical Eastern Himalayas, North eastern & Peninsular India.

*World Distrib.* : Central Himalayas & South East Asia.

\***Dendrobium heyneanum** Lindl., Gen. & Sp. Orch. 90. 1830 ;  
F.B.I. 5 : 718. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Dendrobium hookerianum** Lindl. in J. Linn. Soc. 3 : 8. 1859 ;  
F.B.I. 5 : 745. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India ;  
endemic.

**Dendrobium indragiriense** Schltr., Fedde Reper. 9 : 164. 1911.

*Distrib.* : Andaman islands.

*World Distrib.* : Southern Asia.

**Dendrobium infundibulum** Lindl. in J. Linn. Soc. 3 : 16. 1859 ;  
F.B.I. 5 : 721. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Dendrobium kentrophyllum** Hook. f., Fl. Brit. India 5 : 725,  
1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Southern Asia.

\***Dendrobium lawianum** Lindl. in J. Linn. Soc. 3 : 10. 1859.

*D. crepidatum* Lindl. var. *avita* Gammie in J. Bombay nat. Hist.  
Soc. 17 : 33. 1906.

*Distrib.* : Peninsular India ; endemic.

**Dendrobium lituiflorum** Lindl. in Gard. Chron. 372. 1856 ;  
F.B.I. 5 : 740. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : Southern Asia.

**Dendrobium longicornu** Lindl. in Bot. Reg. 16. t 1315. 1830 ;  
F.B.I. 5 : 720. 1890.

*Distrib.* : Temperate Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Central Himalayas & Burma.

\***Dendrobium mabelae** Gammie in J. Bombay nat. Hist. Soc. 16 : 567. 1905.

*Distrib.* : Peninsular India ; endemic.

**Dendrobium macrostachyum** Lindl., Gen. & Sp. 78. 1830 ; F.B.I. 5 : 735. 1890.

*D. gamblei* King & Pantl. in J. As. Soc. Bengal 66 : 584. 1897.

*Distrib.* : Peninsular & Central India.

*World Distrib.* : India, Sri Lanka.

\***Dendrobium microbulbon** A. Rich. in Ann. Sci. nat. Ser. 2. 150. 19 t. 8 1841 ; F.B.I. 5 : 716. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Dendrobium miserum** Reichb. f. in Gard. Chron. 381. 1869 ; F.B.I. 5 : 717. 1890.

*Distrib.* : North eastern India ; endemic.

**Dendrobium monticola** Hunt & Summer. in Taxon 10 : 110. 1961.

*D. alpestre* Lindl. ; F.B.I. 5 : 715. 1890.

*Distrib.* : Temperate Western Himalayas.

*World Distrib.* : India, Central Himalayas.

**Dendrobium moschatum** (Buch.-Ham.) Sw. in Schltr. Neim. J. Bot. 1 : 943. 1805.

*D. calceolaria* Carey ex Hook. f. F.B.I. 5 : 744. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

\***Dendrobium nanum** Hook. f., Fl. Brit. India 5 : 717. 1890.

*Distrib.* : Peninsular India ; endemic.

**Dendrobium nathanielis** Reichb. f. in Schill. Cat. Orch. ed 3. 26. 1857 ; F.B.I. 5 : 724. 1890.

*Distrib.* : North eastern India

*World Distrib.* : Southern Asia.

**Dendrobium nobile** Lindl., Gen. & Sp. Orch. 79. 1830 ; F.B.I. 740. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Dendrobium normale** Falc. in Proc. Linn. Soc. 1 : 14. 1839 ; F.B.I. 5 : 748. 1890.

*Distrib.* : Western Himalayas ; endemic.

**Dendrobium nutans** Lindl., Gen. & Sp. Orch. 90. 1830 ; F.B.I. 5 : 734. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Dendrobium ochreatum** Lindl. in Bot. Reg. t. 1765. 1835 ; F.B.I. 5 : 748. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Bangladesh.

\***Dendrobium ovatum** (Willd.) Kranz. in Pflanzen. 45 : 71. 1910  
*D. chlorops* Lindl. ; F.B.I. 5 : 719. 1890.

*Distrib.* : Peninsular India ; endemic.

**Dendrobium palpebrae** Lindl. in J. Hort. Soc. 5 : 33. 1850 ; F.B.I. 5 : 750. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Burma.

† \***Dendrobium parviflorum** Reichb. f. ex Lindl. in J. Linn. Soc. 3 : 4. 1859 ; F.B.I. 5 : 724. 1890.

*Distrib.* : North eastern India ; endemic.

**Dendrobium parishii** Reichb. f. in Bot. Zeit. 21 : 237. 1863 ; F.B.I. 5 : 740. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Dendrobium peguanum** Lindl. in J. Linn. Soc. 3 : 19. 1859 ;  
F.B.I. 5 : 717. 1890.

*D. microbulbon* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 :  
262. f. 7. 1931 (non A. Rich. 1845).

*Distrib.* : Eastern Himalayas, Western & Peninsular India.

*World Distrib.* : India, Burma.

**Dendrobium pendulum** Roxb., Fl. Ind. 3 : 482. 1832 ; F.B.I.  
5 : 741. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

**Dendrobium pensile** Ridl. in J. Linn. Soc. 32 : 253. 1896.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

†\***Dendrobium perula** Reichb. f. in Hamb. Garten. 21 : 298.  
1865 ; F.B.I. 5 : 732. 1890.

*Distrib.* : North eastern India ; endemic.

**Dendrobium porphyrochilum** Lindl. in J. Linn. Soc. 3 : 18. 1859 ;  
F.B.I. 5 : 716. 1890.

*D. caespitosum* King & Pantl. in J. As. Soc. Bengal 64 : 332. 1895.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

**Dendrobium primulinum** Lindl. in Gard. Chron. 400. 1858 ;  
F.B.I. 5 : 735. 1890.

*World Distrib.* : Tropical Himalayas & Burma.

**Dendrobium pulchellum** Roxb. in Lindl. Gen. & Sp. Orch. 82.  
1830 ; F.B.I. 6 : 186. 1890.

*D. dalhousieanum* Wall. ex Paxt. ; F.B.I. 5 : 743. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Burma.

†\***Dendrobium rhodocentrum** Reichb. f. in Gard. Chron. 426.  
1872 ; F.B.I. 5 : 731. 1890.

*Distrib.* : India (without specific locality) ; endemic.

- Dendrobium ruckeri** Lindl. in Bot. Reg. Misc. 8. t. 60. 1843 ;  
F.B.I. 5 : 733. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia.
- † **Dendrobium spatella** Reichb. f. in Hamb. Garten. 21 : 298.  
1865 ; F.B.I. 5 : 725. 1890.  
*Distrib.* : North eastern India ; endemic.
- † **Dendrobium strongylanthum** Reichb. f. in Gard. Chron. 1 :  
462. 1878 ; F.B.I. 5 : 716. 1890.  
*Distrib.* : India (no specific locality) ; endemic.
- Dendrobium stuposum** Lindl. in Bot. Reg. Misc. 52. 1838 ; F.B.I.  
5 : 737. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Burma.
- Dendrobium sulcatum** Lindl. in Bot. Reg. Misc. t. 65. 1838 ;  
F.B.I. 5 : 749. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India ; endemic.
- † **Dendrobium tenuicaule** Hook. f., Fl. Brit. India 6 : 184. 1890.  
*Distrib.* : Andaman islands ; endemic
- Dendrobium terminale** Par. & Reichb. f. in Trans. Linn. Soc.  
30 : 149. 1859 ; F.B.I. 5 : 725. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : Southern Asia.
- Dendrobium transparens** Lindl., Gen. & Sp. Orch. 79. 1830 ;  
F.B.I. 6 : 738. 1890.  
*Distrib.* : Tropical Western & Eastern Himalayas, North eastern  
India.  
*World Distrib.* : India, Central Himalayas & Bangladesh.
- Dendrobium wardianum** Warner, Sel. Orch. 1. t. 19. 1862; F.B.I.  
5 : 742; 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : India, Burma.

† **\*Dendrobium wattii** (Hook.f.) Reichb. f. in Gard. Chron. 2 : 725.  
1888 ; F.B.I. 5 : 721. 1890.

*Distrib.* : North eastern India ; endemic.

**\*Dendrobium wightii** Hawkes & Heller in Orchidea 24 : 16. 1962.  
*D. graminifolium* Wight ; F.B.I. 5 : 718. 1890.

*Distrib.* : Peninsular India ; endemic.

**\*Dendrobium williamsoni** Day & Reichb. f. in Gard. Chron. 78.  
1869 ; F.B.I. 5 : 721. 1890.

*Distrib.* : North eastern India ; endemic.

#### DIDICIEA King & Pantl.

**\*Didiciea cunninghami** King & Pantl. in J. As. Soc. Bengal 65 :  
119. 1896.

*Distrib.* : Western and Eastern Himalayas ; endemic.

#### DIDYMOPLEXIS Griff.

**\*Didymoplexis himalaica** Schltr. in Bull. Herb. Boiss. 2 Ser. 4 :  
299. 1906.

*Distrib.* : Eastern Himalayas ; endemic.

**Didymoplexis pallens** Griff. in Calcutta J. nat. Hist. 4 : 383. t.  
17. 1844 ; F.B.I. 6 : 122. 1890.

*Cheirostylis kanarensis* Blatt. & McCann in J. Bombay nat. Hist.  
Soc. 35 : 752. fig. 4. 1932.

*Distrib.* : Eastern Himalayas, North eastern, Eastern & Peninsular  
India.

*World Distrib.* : South East Asia.

#### DIGLYPHOSA Blume

**\*Diglyphosa macrophylla** (King & Pantl.) King. & Pantl. in  
Ann. Roy. Bot. Gard. Calcutta 8 : 98. 1898.

*Chrysoglossum macrophyllum* King & Pantl. in J. As. Soc. Bengal  
64 : 335. 1895.

*Distrib.* : Eastern Himalayas ; endemic.

## DIPHYLAX Hook. f.

**Diphylax urceolata** (Clarke) Hook. f., Ic. Pl. t. 1865. 1889 ; F.B.I.  
6 : 165. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

## DIPLOCENTRUM Lindl.

\***Diplocentrum congestum** Wight, Ic. 5(1) : 10. t. 1682. 1852 ;  
F.B.I. 6 : 78. 1890.

*Distrib.* : Peninsular India & Eastern India ; endemic.

**Diplocentrum recurvum** Lindl. in Bot. Reg. 18. Sub. t. 1522. 1832 ;  
F.B.I. 6 : 78. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

## DIPLOMERIS D. Don

**Diplomeris hirsuta** Lindl., Gen. & Sp. Orch. 330. 1835 ; F.B.I.  
6 : 167. 1890.

*Distrib.* : Tropical Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

**Diplomeris pulchella** D. Don, Prodr. Fl. Nepal 26. 1825 ; F.B.I.  
6 : 167. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Central Himalayas & Eastern Asia.

## DIPLOPRORA Hook. f.

**Diploprora championii** Hook. f., Fl. Brit. India 6 : 26. 1890.

*Distrib.* : Peninsular India, Eastern Himalayas & North eastern  
India.

*World Distrib.* : India, Sri Lanka & Eastern Asia.

## DISPERIS Sw.

**Disperis neilgherrensis** Wight, Ic. 5(1) : 15. t. 1710. 1852 ; F.B.I.  
6 : 169. 1890.



*D. zeylanica* Trim. ; F.B.I., 1.c.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

DORITIS Lindl. (see KINGIDIUM)

ECHINOGLOSSUM Reichb. (see CLEISOSTOMA)

EPIGENEIUM Gagnep.

**Epigeneium amplum** (Lindl.) Summer. in Kew Bull. 260. 1957.

*Dendrobium amplum* Lindl ; F.B.I. 5 : 711. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Epigeneium fuscescens** (Griff.) Summer. in Kew Bull. 262. 1957.

*Dendrobium fuscescens* Griff. ; F.B.I. 5 : 712. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Epigeneium rotundatum** (Lindl.) Summer. in Kew Bull. 264. 1957.

*Dendrobium rotundatum* (Lindl.) Reichb. f. ; F.B.I. 5 : 712. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Eastern China.

EPIPACTIS Zinn

**Epipactis helleborine** (L.) Crant., Strib. Austr. 467. 1769.

*E. latifolia* Sw., F.B.I. 6 : 125. 1890.

*World Distrib.* : Widespread from Europe through North Africa and Northern Asia to temperate Himalayas & Far East.

**Epipactis royleana** Lindl. in Royle Ill. 368. 1839, Gen. & Sp.

Orch. 461. 1845 ; F.B.I. 6 : 126. 1890.

*World Distrib.* : Temperate Himalayas, Northern & Eastern Asia, North & Central America.

**Epipactis veratrifolia** Boiss. in Diagn. Ser. I. 13: 11. 1853 ; F.B.I.

6 : 126. 1890.

*Distrib.* : Temperate Western & Eastern Himalayas, Peninsular, India.

*World Distrib.* : South East Asia.

EPIPOGIUM R. Br.

**Epipogium aphyllum** Sw. in Summ. Veg. Scand. 32. 1814 ; F.B.I. 6 : 124. 1890.

*World Distrib.* : Temperate parts of Europe through Himalayas to Japan.

**Epipogium roseum** (D. Don) Lindl. in J. Linn. Soc. 1 : 177. 1857 ; F.B.I. 6 : 124. 1890.

*E. tuberosum* Duthie in Ann. Roy. Bot. Gard. Calcutta 9 : 151. 1906.

*World Distrib.* : Widespread from West tropical Africa through Asia to Australia & New Caledonia.

\***Epipogium sessanum** Hegde & Rao in J. Eco. Tax. Bot. 3(2) : 597. 1982.

*Distrib.* : Eastern Himalayas ; endemic.

ERIA Lindl. (also see PORPAX, TAINIOPSIS and TRICHOTOSIA)

**Eria acervata** Lindl. in J. Hort. Soc. 6 : 57. 1851 ; F.B.I. 5 : 796. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

†\***Eria acutifolia** Lindl. in Bot. Reg. 28. 1842 ; F.B.I. 5 : 800. 1890.

*Distrib.* : India (no specific locality) ; endemic.

**Eria alba** Lindl., Gen. & Sp. Orch. 67. 1830 ; F.B.I. 5 : 795. 1890.

*World Distrib.* : Subtropical Himalayas.

\***Eria albiflora** Rolfe in Kew Bull. 79 : 170. 1893.

*Distrib.* : Peninsular India ; endemic.

**Eria amica** Reichb. f. in Xen. Orch. 3 : 168. t. 3. f. 6-9. 1870 ; F.B.I. 5 : 800. 1890.

- E. andersonii* & *E. confusa* Hook. f., F.B.I. 5 : 795 & 796. 1890.  
*Distrib.* : Western & Eastern Himalayas, North eastern India.  
*World Distrib.* : Central Himalayas & South East Asia.
- \****Eria andamanica*** Hook f., Fl. Brit. India 5 : 801. 1890.  
*Distrib.* : Andaman islands ; endemic.
- Eria bambusifolia*** Lindl. in J. Linn. Soc. 3 : 61. 1859 ; F.B.I. 5 : 895. 1890.  
*Distrib.* : Tropical Eastern Himalayas, North eastern & Peninsular India.  
*World Distrib.* : South East Asia.
- Eria biflora*** Griff., Not. Pl. 3 : 302. 1851 ; F.B.I. 5 : 800. 1890.  
*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- Eria bipunctata*** Lindl. in Bot. Reg. 83 Misc. 179. 1841 ; F.B.I. 5 : 792. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia.
- Eria bractescens*** Lindl. in Bot. Reg. 18. Misc. 201. 1841 ; F.B.I. 5 : 796. 1890.  
*Distrib.* : Eastern Himalayas, North eastern India & Andaman & Nicobar islands.  
*World Distrib.* : Central Himalayas & South East Asia.
- \*var. ***kurzii*** Hook. f., l. c. 797. 1890.  
*Distrib.* : Andaman & Nicobar islands,; endemic.
- Eria carinata*** Lindl. in J. Linn. Soc. 3 : 50. 1859 ; F.B.I. 5 : 808. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Central Himalayas & Thailand.
- Eria clausa*** King & Pantl. in J. As. Soc. Bengal 65 : 721. 1896.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India, Bhutan, Vietnam.

**Eria clavicaulis** Wall. & Lindl. in Bot. Reg. 20. Misc. 90. 1840 ;  
F.B.I. 5 : 799. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

**Eria coronaria** (Lindl.) Reichb. f. in Walp. Ann. 6 : 272. 1861.

*Trichosma suavis* Lindl. ; F.B.I. 5 : 828 & 6 : 193. 1890.

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

† **\*Eria crassicaulis** Hook. f., Fl. Brit. India 5 : 805. 1890.

*Distrib.* : North eastern India ; endemic.

**\*Eria dalzelli** Lindl. in J. Linn. Soc. 3 : 47. 1859 (nom. et. syn.  
tontum non descr.) ; F.B.I. 5 : 789. 1890. p.p.

*E. dalzelli* var. *fimbriata* Hook. f., F.B.I. 5 : 789. 1890.

*Distrib.* : Peninsular India ; endemic.

**Eria discolar** Lindl. in J. Linn. Soc. 3 : 51. 1859.

*E. pulchella* sensu Hook. f., F.B.I. 5 : 801. 1890. p.p. (excl.  
Malayan pl.).

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Eria excavata** Lindl., Gen. & Sp. Orch. 67. 1830. p.p. ; F.B.I. 5 :  
795. 1890.

*World Distrib.* : Temperate Himalayas.

**\*Eria exilis** Hook. f., Fl. Brit. India 5 : 788. 1890.

*E. minima* Blatt. & McCann. in J. Bombay nat. Hist. Soc. 35 :  
274. f. 2. 1931.

*Distrib.* : Peninsular India ; endemic.

**\*Eria ferruginea** Lindl. in Bot. Reg. t. 35. 1839 ; F.B.I. 5 : 804.  
1890.

*Distrib.* : Eastern Himalayas and North eastern India ; endemic.

**Eria graminifolia** Lindl. in J. Linn. Soc. 3 : 54. 1859 ; F.B.I. 5 :  
794. 1890.

*World Distrib.* : Temperate Himalayas.

- Eria javanica** (Sw.) Bl., Rumphia 2 : 23. 1836.  
*E. fragrans* Reichb. f. ; F.B.I. 5 : 794. 1890.  
*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- Eria lacei** Summer. in Kew Bull. 308. 1929.  
*Distrib.* : North eastern India.  
*World Distrib.* : Southern Asia.
- Eria laniceps** Reichb. f. in Ham. Garten. 19 : 10. 1863.  
*E. elongata* Lindl. ; F.B.I. 5 : 801. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- \***Eria microchilos** Lindl. in J. Linn. Soc. 3 : 47. 1859. (nom. et syn. tantum non descr.).  
*E. dalzellii* sensu Hook. f., F.B.I. 5 : 789. 1890. p.p.  
*Distrib.* : Peninsular India ; endemic.
- Eria muscicola** Lindl. in J. Linn. Soc. 3 : 47. 1859 ; F.B.I. 5 : 789. 1890.  
*Distrib.* : Eastern Himalayas, Eastern & North eastern India.  
*World Distrib.* : Central Himalayas & South East Asia.
- \*var. **brevilinguis** Joseph & Chandra. in Bull. bot. Surv. India 15 : 267. 1973 (1976).  
*Distrib.* : Peninsular India ; endemic.
- \***Eria mysorensis** Lindl. in J. Linn. Soc. 3 : 54. 1859 ; F.B.I. 5 : 793. 1890.  
*Distrib.* : Peninsular India ; endemic.
- \***Eria nana** A. Rich. in Ann. Sci. nat. Ser. 2. 15 : 19. 1841 ; F.B.I. 5 : 789. 1890.  
*Distrib.* : Peninsular India ; endemic.
- Eria obesa** Lindl., Gen. & Sp. Orch. 68. 1830 ; F.B.I. 5 : 793. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : Southern Asia.

\***Eria occidentalis** Seidenf. in Nord. J. Bot. 2 : 15. 1982.

*Distrib.* : Western Himalayas ; endemic.

**Eria paniculata** Lindl. in Wall. Pl. As. Rar. 1 : 32. t. 36. 1830 ;  
F.B.I. 5 : 789. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Eria pannea** Lindl. in Bot. Reg. 64 Misc. 79. 1842 ; F.B.I. 5 : 804.  
1890.

*E. calamifolia* Hook. f., F.B.I. 6 : 191. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

\***Eria pauciflora** Wight, Ic. 5(1) : 4. t. 1636. 1852 ; F.B.I. 5 : 799.  
1890.

*Distrib.* : Peninsular India ; endemic

\***Eria polystachya** A. Rich. in Ann. Sci. nat. Ser. 2. 15 : 20. t. 9.  
1841 ; F.B.I. 5 : 792. 1890.

*Distrib.* : Peninsular India ; endemic.

**Eria pubescens** (Hook.) Steud., Nomen. bot. ed. 2. 1 : 566. 1840.  
*E. flava* Lindl. ; F.B.I. 5 : 801. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, Eastern &  
North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Eria pudica** Ridl. in J. Linn. Soc. 32 : 294. 1896.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Eria pumila** Lindl., Gen. & Sp. Orch. 68. 1830 ; F.B.I. 5 : 791.  
1890.

*Distrib.* : North eastern India & Eastern Himalayas.

*World Distrib.* : India, Burma.

**Eria pusilla** (Griff.) Lindl. in J. Linn. Soc. 3 : 48. 1859 ; F.B.I.  
5 : 787. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

\***Eria reticosa** Wight, Ic. 5(1) : 4. t. 1637. 1852 ; F.B.I. 5 : 787. 1890.

*E. rupestris* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 270. f. 6. 1931.

*Distrib.* : Peninsular India & Western Himalayas ; endemic.

†\***Eria scabrilinguis** Lindl. in J. Linn. Soc. 3 : 51. 1859 ; F.B.I. 5 : 792. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

**Eria spicata** (D. Don) Hand.-Mazz. in Symb. Sin. 7 : 1353. 1936.

*E. convallarioides* Lindl. ; F.B.I. 5 : 791. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Eria stricta** Lindl. in Collect. Bot. t. 41B. 1825 ; F.B.I. 5 : 791. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Eria tomentosa** Hook. f., Fl. Brit. India 5 : 803. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Eria vittata** Lindl. in J. Linn. Soc. 3 : 51. 1859 ; F.B.I. 5 : 794. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

#### ERYTHRODES Blume

**Erythrodes blumei** (Lindl.) Schltr. in Schum. & Lauterb., Nachtr. 87. 1905.

*Physurus blumei* Lindl. ; F.B.I. 6 : 94. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

## ESMERALDA Reichb. f. (see ARACHNIS)

## EULOPHIA R. Br. ex Lindl.

**Eulophia andamanensis** Reichb. f. in Flora 276. 1872 ; F.B.I. 6 : 8. 1890.

*Distrib.* : Andaman islands.

*World Distrib.* : South East Asia.

**Eulophia bicallosa** (D. Don) Hunt & Summer. in Kew Bull. 20 : 60. 1969.

*Bletia bicallosa* D. Don ; F.B.I. 6 : 196. 1890.

*E. bicarinata* (Lindl.) Hook. f., l. c. 6 : 6. 1890.

*World Distrib.* : Widespread from India to Australia.

**Eulophia bracteosa** Lindl., Gen. & Sp. Orch. 180. 1833 ; F.B.I. 6 : 3. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

\***Eulophia candida** (Lindl.) Hook. f., Fl. Brit. India 6 : 6. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Eulophia cullenii** (Wight) Bl., Orch. Arch. Ind. 187. 1858.

*E. flava* (Lindl.) Hook. f., F.B.I. 6 : 7. 1890.

*Distrib.* : Tropical Western Himalayas, Eastern & Peninsular India.

*World Distrib.* : South East Asia.

**Eulophia dabia** (D. Don) Hochr. in Bull. New York Bot. Gard. 6 : 270. 1910.

*E. campestris* Wall. ex Lindl. ; F.B.I. 6 : 4. 1890. pp.

*Distrib.* : Plains of India, Andaman islands.

*World Distrib.* : West Asia to India, subtropical Himalayas & Burma.

\***Eulophia emilianae** Saldanha in Ind. For. 100(9) : 566. 1974.

*Distrib.* : Peninsular India ; endemic.



**Eulophia epidendracea** (Retz.) Fischer in Fl. Pres. Madras 3 : 1434. 1928.

*E. virens* R. Br. ; F.B.I. 6 : 1. 1890.

*Distrib.* : Peninsular India & Eastern India.

*World Distrib.* : South East Asia.

**Eulophia explanata** Lindl., Gen. & Sp. Orch. 180. 1833 ; F.B.I. 6 : 3. 1890.

*Distrib.* : Subtropical Western Himalayas & Peninsular India.

*World Distrib.* : India, Central Himalayas.

\***Eulophia geniculata** King & Pantl. in J. As. Soc. Bengal 64 : 337. 1895.

*Distrib.* : Eastern Himalayas ; endemic.

**Eulophia graminea** Lindl., Gen. & Sp. Orch. 182. 1833 ; F.B.I. 6 : 2. 1890.

*E. decipiens* Kurz ; F.B.I. 6 : 5. 1890.

*World Distrib.* : Widespread from India to Philippines.

**Eulophia herbacea** Lindl., Gen. & Sp. Orch. 182. 1833 ; F.B.I. 6 : 2. 1890.

*Distrib.* : Throughout India.

*World Distrib.* : India, Nepal & Thailand.

\***Eulophia hirsuta** Joseph & Vajravelu in Bull. bot. Surv. India 17 : 192. 1975 (1978).

*Distrib.* : Peninsular India ; endemic.

**Eulophia hormusji** Duthie in Ann. Roy. Bot. Gard. Calcutta 9 : 125. 1906.

*Distrib.* : Western Himalayas.

*World Distrib.* : Pakistan, India & Bhutan.

\***Eulophia mackinnoni** Duthie in J. As. Soc. Bengal 71 : 40. 1902.

*Distrib.* : Tropical & Subtropical Western Himalayas ; endemic.

**Eulophia macrobulbon** Par. & Reichb. f. in Trans. Linn. Soc. 30 : 144. 1878 ; F.B.I. 6 : 7. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

\***Eulophia macrorhizon** Hook. f., Fl. Brit. India 6 : 7. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Eulophia macrostachya** Lindl., Gen. & Sp. Orch. 183. 1833 ;  
F.B.I. 6 : 4. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : Madagascar through India to New Hebrides &  
Fiji islands.

\***Eulophia mannii** (Reichb. f.) Hook. f., Fl. Brit. India 6 : 4. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

\***Eulophia nicobarica** Balak. & Nair in Bull. bot. Surv. India 15 :  
271. 1973 (1976).

*Distrib.* : Nicobar islands ; endemic.

**Eulophia nuda** Lindl., Gen. & Sp. Orch. 180. 1833 ; F.B.I. 6 : 5.  
1890.

*E. squalida* Lindl. ; F.B.I. 6 : 6. 1890.

*World Distrib.* : Throughout India to Philippines.

\***Eulophia obtusa** (Lindl.) Hook. f., Fl. Brit. India 6 : 3. 1890.

*Distrib.* : Tropical & subtropical Western Himalayas ; endemic.

\***Eulophia ochreatea** Lindl. in J. Linn. Soc. 3 : 24. 1859 ; F.B.I.  
6 : 2. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Eulophia ramentacea** Wight, Ic. 5(1): 8. t. 1666. 1852; F.B.I. 6:  
4. 1890.

*Distrib.* : Peninsular India ; endemic.

**Eulophia sanguinea** (Lindl.) Hook. f., Fl. Brit. India 6 : 8. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India & Sri Lanka.

- \***Eulophia santapau** Panigr. & Katak in Sci. & Cult. 33 : 124. 1967.  
*Distrib.* : North eastern India ; endemic.

FLICKINGERIA Hawkes

- Flickingeria fimbriata** (Bl.) Hawkes in Orch. Weekly 2, 46 : 454. 1961. (excl. several syn.).  
*Dendrobium kunstleri* Hook. f., F.B.I. 5 : 714. 1890.  
*Distrib.* : Nicobar islands.  
*World Distrib.* : South East Asia.
- Flickingeria fugax** (Reichb. f.) Seidenf. in Dansk Bot. Ark. 34(1) : 46. 1980.  
*Dendrobium fugax* Reichb. f. ; F.B.I. 5 : 752. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Southern Asia.
- \***Flickingeria hesperis** Seidenf. in Nord. J. Bot. 2 : 16. 1982.  
*Distrib.* : Western Himalayas ; endemic.
- Flickingeria macraei** (Lindl.) Seidenf. in Dansk Bot. Ark. 34(1) : 39. 1980.  
*Dendrobium macraei* Lindl. ; F.B.I. 5 : 714. 1890. (excl. all syn. & non Ceylonese plants).  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka.
- \***Flickingeria nodosa** (Dalz.) Seidenf. in Dansk. Bot. Ark. 34(1) : 41. 1980.  
*Dendrobium macraei* sensu Hook. f., F.B.I. 5 : 714. 1890. (quoad Deccan plants).  
*Distrib.* : Peninsular India ; endemic.
- Flickingeria ritaeana** (King & Pantl.) Hawkes in Orch. Weekly 2, 46 : 459. 1961.  
*Dendrobium ritaeantum* King & Pantl. in J. As. Soc. Bengal 66: 583. 1897.  
*Distrib.* : North eastern India.  
*World Distrib.* : India, Thailand.

## GALEARIS Rafin. (see AORCHIS)

## GALEOLA Lour.

**Galeola altissima** (Bl.) Reichb. f. in Xen. Orch. 2 : 77. 1865 ;  
F.B.I. 6 : 89. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Galeola cathcartii** Hook f., Fl. Brit. India 6 : 89. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Thailand.

\***Galeola falconeri** Hook. f., Fl. Brit. India 6 : 88. 1890.

*Distrib.* : Subtropical Western & Eastern Himalayas ; endemic.

**Galeola javanica** (Bl.) Benth. & Hook. f., Gen. Pl. 3: 590. 1883 ;  
F.B.I. 6 : 88. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Galeola lindleyana** (Reichb. f.) Reichb. f. in Xen. Orch. 2 : 78.  
1865 ; F.B.I. 6 : 88. 1890.

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Galeola nudifolia** Lour., Fl. Cochinch. 2 : 520. 1790.

*G. hydra* Reichb. f. ; F.B.I. 6 : 89. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

## GASTROCHILUS D. Don

**Gastrochilus acutifolius** (Lindl.) Kuntze, Rev. Gen. 2 : 661. 1891.

*Saccolabium acutifolium* Lindl. ; F.B.I. 6 : 61. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

**Gastrochilus affinis** (King & Pantl.) Schltr., Fedde Repert. 12 :  
314. 1913.

*Saccolabium affine* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta  
8 : 228. t. 304. 1898.

*Distrib.* : Temperate Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

**Gastrochilus calceolaris** (Buch.-Ham. ex Sm.) D. Don, Prodr. Fl.  
Nepal 32. 1825 ; F.B.I. 6 : 60. 1890.

*Saccolabium nilagiricum* Hook. f., F.B.I. 6 : 60. 1890.

*Distrib.* : Tropical Western Himalayas, North eastern India &  
Peninsular India.

*World Distrib.* : South East Asia.

**Gastrochilus dasypogon** (Sm.) Kuntze, Rev. Gen. 2 : 661. 1891.

*Saccolabium dasypogon* (Sm.) Lindl. ; F.B.I. 6 : 66. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Gastrochilus distichus** (Lindl.) Kuntze, Rev. Gen. 2 : 661. 1891.

*Saccolabium distichum* Lindl. ; F.B.I. 6 : 64. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

\***Gastrochilus flabelliformis** (Blatt. & McCann) Saldanha, Fl.  
Hassan Dist. 630. 1976.

*Saccolabium flabelliforme* Blatt. & McCann in J. Bombay nat. Hist.  
Soc. 35 : 722. t. 1. 1931 (1932).

*Distrib.* : Peninsular India ; endemic.

**Gastrochilus inconspicua** (Hook. f.) Seidenf. in Dansk Bot. Ark.  
27(4) : 94. 1971.

*Saccolabium inconspicuum* Hook. f., F.B.I. 6 : 56. 1890.

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : India, Central Himalayas.

**Gastrochilus intermedius** (Griff. ex Lindl.) Kuntze, Rev. Gen.  
2 : 661. 1891.

*Saccolabium intermedium* Griff. ex Lindl. ; F.B.I. 6 : 61. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Gastrochilus obliquum** Lindl., Gen. & Sp. Orch. 223. 1833.

*Saccolabium obliquum* Lindl. ; F.B.I. 6 : 61. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Burma.

**Gastrochilus pseudodistichus** (King & Pantl.) Seidenf., Orch.

Fl. Camb. Laos & Vietn. 1 : 65. 1975.

*Saccolabium pseudodistichum* King & Pantl. in J. As. Soc. Bengal  
64 : 341. 1895.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

#### GASTRODIA R. Br.

\***Gastrodia dyeriana** King & Pantl. in J. As. Soc. Bengal 64 :  
342. 1895.

*Distrib.* : Eastern Himalayas ; endemic.

†\***Gastrodia exilis** Hook. f., Fl. Brit. India 6 : 123. 1890.

*Distrib.* : North eastern India ; endemic.

**Gastrodia orobanchoides** Benth. in Gen. Pl. 3 : 617. 1883 ; F.B.I.  
6 : 122. 1890.

*Distrib.* : Temperate Western Himalayas.

*World Distrib.* : Pakistan and India.

#### GEODORUM JACKS.

**Geodorum densiflorum** (Lam.) Schltr., Fedde Reper. Beih. 4 :  
259. 1929.

*G. purpureum* R. Br. ; F.B.I. 6 : 16. 1890.

*G. dilatatum* R. Br. ; F.B.I. 6 : 17. 1890.

*World Distrib.* : From India to Australia.

#### GOODYERA R. Br.

**Goodyera biflora** (Lindl.) Hook. f., Fl. Brit. India 6 : 114. 1890.

*Distrib.* : Temperate Western Himalayas.

*World Distrib.* : India, Central Himalayas & Tibet.

- Goodyera foliosa** (Lindl.) Benth. ex Clarke in J. Linn. Soc. 25 : 73. 1889 ; F.B.I. 6 : 113. 1890.  
*World Distrib.* : Himalayas & Eastern Asia.
- Goodyera fumata** Thw., Enum. Pl. Zeyl. 314. 1864 ; F.B.I. 6 : 111. 1890.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : South East Asia.
- Goodyera fusca** (Lindl.) Hook. f., Fl. Brit. India 6 : 112. 1890.  
*World Distrib.* : Subalpine Himalayas, Burma & Tibet.
- \***Goodyera grandis** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 284. 1898.  
*Distrib.* : Eastern Himalayas ; endemic.
- Goodyera hemsleyana** King & Pantl. in J. As. Soc. Bengal 65 : 342. 1896.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India, Central Himalayas.
- Goodyera hispida** Lindl. in J. Linn. Soc. 1 : 183. 1857 ; F.B.I. 6 : 114. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Southern Asia.
- Goodyera macrantha** Maxim. in Fl. des. Serres. Ser. 2.7 ; 113. 1867-68.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India and Japan.
- \***Goodyera prainii** Hook. f., Fl. Brit. India 6 : 112. 1890.  
*Distrib.* : North eastern India ; endemic.
- Goodyera procera** (Ker-Gawl.) Hook., Exot. Fl. 1.3 : t. 39. 1823 ; F.B.I. 6 : 111. 1890.  
*Distrib.* : Widespread throughout India & South East Asia.
- \***Goodyera recurva** Lindl. in J. Linn. Soc. 1 : 183. 1857 ; F.B.I. 6 : 112. 1890.  
*Distrib.* : North eastern India ; endemic.

**Goodyera repens** (L.) Br. Hort. Kew. 2. 5 : 198. 1850 ; F.B.I. 6 : 111. 1890.

*Distrib.* : Western & Eastern Himalayas.

*World Distrib.* : Widespread from North America through Europe, Japan to China, Burma and Himalayas.

\***Goodyera robusta** Hook. f., Fl. Brit. India 6: 113. 1890.

*Distrib.* : North eastern India ; endemic.

**Goodyera schlechtendaliana** Reichb. f. in Linnaea 22 : 861. 1849 ;  
*G. secundiflora* Lindl. ; F.B.I. 6 : 113. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas, South East Asia.

**Goodyera viridiflora** (Bl.) Bl., Coll. Orch. Arch. Ind. 41. t. 9. 1858.

*G. cordata* (Lindl.) Nicols. ; F.B.I. 6 : 114. 1890.

*Distrib.* : Western Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**Goodyera vittata** Benth. ex Hook. f., Fl. Brit. India. 6 : 113. 1890.

*World Distrib.* : Subtropical & temperate Himalayas & Tibet.

#### GYMNADENIA R. Br.

**Gymnadenia camischatica** (Cham.) Miyabe & Kudo in Fl. Japan 322. 1965.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Far East Asia & America.

**Gymnadenia orchidis** Lindl., Gen. & Sp. Orch. 278. 1835 ; F.B.I. 6 : 142. 1890.

*Orchis habenarioides* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 302. t. 401. 1898.

*World Distrib.* : Temperate Himalayas.

#### HABENARIA Willd. (also see BRACHYCORYTHIS, PECTEILIS, PERISTYLUS and PLATANThERA)

**Habenaria acuífera** Wall. ex Lindl., Gen. & Sp. Orch. 325. 1835 ;



F.B.I. 6 : 146. 1890. (excl. syn. *H. linguella* Lindl.).

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Habenaria aitchisoni** Reichb. f. in Trans. Linn. Soc. Ser. Bot. 3. 113 : 1888 ; F.B.I. 6 : 152. 1890.

*World Distrib.* : From Afghanistan to temperate Himalayas & Eastern Asia.

var. **josephi** Hook. f., l. c. 6 : 152. 1890.

*World Distrib.* : Temperate Himalayas.

**Habenaria albo-marginata** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8: 322. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Tibet.

\***Habenaria andamanica** Hook. f., Fl. Brit. India 6 : 134. 1890.

*Distrib.* : Andaman islands ; endemic.

**Habenaria arietina** Hook. f., Fl. Brit. India 6 : 138. 1890.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

\***Habenaria barnesii** Summer. apud Fischer in Fl. Près. Madras 3 : 1887. 1936.

*Distrib.* : Peninsular India ; endemic.

†**Habenaria caranjensis** Dalz. in Hook., J. Bot. 2 : 262. 1850 ; F.B.I. 6 : 166. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Habenaria cephalotes** Lindl., Gen. & Sp. Orch. 322. 1835 ; F.B.I. 6 : 134. 1890.

*Distrib.* : Peninsular India ; endemic.

**Habenaria commelinifolia** (Roxb.) Wall. ex Lindl., Gen. & Sp. Orch. 325. 1835 ; F.B.I. 6 : 143. 1890.

*Distrib.* : Throughout India.

*World Distrib.* : South East Asia.

- \***Habenaria concinna** Hook. f., Fl. Brit. India 6 : 155. 1890.  
*Distrib.* : North eastern India ; endemic.
- \***Habenaria crassifolia** A. Rich. in Ann. Sci. nat. Ser. 2. 15 : 72. t. 3C. 1841 ; F.B.I. 6 : 151. 1890. (excl. syn. *H. brachyphylla* Reichb. f.).  
*Distrib.* : Peninsular India ; endemic.
- Habenaria crinifera** Lindl., Gen. & Sp. Orch. 323. 1835 ; F.B.I. 6 : 142. 1890.  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka & Bhutan.
- Habenaria cubitalis** Br., Prodr. 312. 1810 ; F.B.I. 6 : 157. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : India, Sri Lanka & Burma.
- †\***Habenaria cumminsiana** King & Pantl. in J. As. Soc. Bengal 64 : 343. 1895.  
*Distrib.* : Eastern Himalayas ; endemic.
- Habenaria dentata** (Sw.) Schltr., Fedde Repert. Beih. 4 : 125. 1919. *H. geniculata* D. Don ; F.B.I. 6 : 138. 1890.  
*World Distrib.* : South East Asia.
- Habenaria digitata** Lindl., Gen. & Sp. Orch. 307. 1835 ; F.B.I. 6 : 134. 1890.  
*Distrib.* : Throughout India.  
*World Distrib.* : India, Pakistan & Burma.
- \*var. **travancorcica** (Hook. f.) Fischer in Fl. Preş. Madras 3 : 1469. 1928. *H. travancorica* Hook. f., F.B.I. 6 : 135. 1890.  
*Distrib.* : Peninsular India ; endemic.
- Habenaria diphylla** Dalz. in Hook., J. Bot. 2 : 262. 1850 ; F.B.I. 6 : 151. 1890. (excl. *Liparis diphyllus* Nimmo).  
*Distrib.* : Throughout India.  
*World Distrib.* : South East Asia.

- Habenaria edgeworthii** Hook. f. ex Collett, Fl. Siml. 504. fig. 166. 1902.  
*H. latilabris* Hook. f., F.B.I. 6 : 153. 1890. p.p.  
*Distrib.* : Western Himalayas.  
*World Distrib.* : Pakistan and India.
- \***Habenaria elliptica** Wight Ic. 5(1) : 13. t. 1706. 1852 ; F.B.I. 6 : 147. 1890.  
*Distrib.* : Peninsular India ; endemic.
- \***Habenaria elwesii** Hook. f. in Bot. Mag. t. 7478. 1896.  
*Distrib.* : Peninsular India ; endemic.
- Habenaria furcifera** Lindl., Gen. & Sp. Orch. 319. 1835 ; F.B.I. 6 : 149. 1890.  
*Distrib.* : Throughout India.  
*World Distrib.* : West Asia & South East Asia.
- \***Habenaria gibsonii** Hook. f., Fl. Brit. India 6 : 135. 1890.  
*Distrib.* : Peninsular India ; endemic.
- \*var. **foetida** Blatt. & McCann in J. Bombay nat. Hist. Soc. 36 : 16. 1932.  
*Distrib.* : Peninsular India ; endemic.
- \*var. **foliosa** (A. Rich.) Santapau & Kapadia in J. Bombay nat. Hist. Soc. 56 : 194. 1959.  
*H. digitata* var. *foliosa* Hook. f., l.c.  
*H. spencei* Blatt. & McCann, l. c. 17. t. 3. 1932.  
*Distrib.* : Peninsular India ; endemic.
- Habenaria griffithii** Hook. f., Fl. Brit. India 6 : 197. 1890.  
*H. (Dithrix) decipiens* Hook. f., l.c. 165. 1890.  
*Distrib.* : Western Himalayas.  
*World Distrib.* : West Asia and India.
- \***Habenaria grandifloriformis** Blatt. & McCann in J. Bombay nat. Hist. Soc. 36 : 17. 1932.  
*H. grandifloriformis* var. *aequiloba* Blatt. & McCann, l.c. 18: 1932.

*H. grandiflora* Lindl. ; F.B.I. 6 : 136. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Habenaria graveolens** Duthie, Fl. Upper Gang. Pl. 2 : 299. 1920.

*Distrib.* : Western Himalayas ; endemic.

\***Habenaria heyneana** Lindl., Gen. & Sp. Orch. 320. 1835 ; F.B.I. 6 : 148. 1890.

*H. subpubens* A. Rich. ; F.B.I. 6 : 148. 1890.

*H. cerea* Blatt. & McCann in J. Bombay nat. Hist. Soc. 36 : 21. t. 6. 1932. and var. *polyantha* Blatt. & McCann, l.c. 22. 1932.

*Distrib.* : Peninsular India ; endemic.

\***Habenaria hollandiana** Santapau, Fl. Purandh. 126. 1958.

*Distrib.* : Peninsular, Central & Eastern India ; endemic.

**Habenaria intermedia** Don, Prodr. Fl. Nepal 24. 1825 ; F.B.I. 6 : 138. 1890.

*World Distrib.* : Temperate South East Asia.

**Habenaria khasiana** Hook. f., Fl. Brit. India 6 : 151. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

\***Habenaria longicorniculata** Grah., Cat. Bombay Pl. 202. 1839 ; F.B.I. 6 : 141. 1890.

*H. longecalcarata* var. *viridis* Blatt. & McCann in J. Bombay nat. Hist. Soc. 36 : 20. 1932.

*Distrib.* : Peninsular India & Eastern India ; endemic.

\***Habenaria longicornu** Lindl., Gen. & Sp. Orch. 322. 1836 ; F.B.I. 6 : 139. 1890.

*Distrib.* : Peninsular India ; endemic.

**Habenaria longifolia** Ham. ex Lindl., Gen. & Sp. Orch. 324. 1835 ; F.B.I. 6 : 141. 1890.

*World Distrib.* : Subtropical & temperate Himalayas.

**Habenaria macrostachya** Lindl., Gen. & Sp. Orch. 307. 1835 ; F.B.I. 6 : 134. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Habenaria malintana** (Blanco) Merrill in Bur. Sci. Publ. Manilla  
12 : 112. 1918.

*H. pelorioides* Par. & Reichb. f. ; F.B.I. 6 : 166. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Habenaria malleifera** Hook.f., Fl. Brit. India 6 : 143. 1890.

*H. furfuracea* Hook. f., l.c. 144. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Eastern Asia.

**Habenaria marginata** Coleb. in Hook., Eoxt. Fl. 2, 17. t. 136. 1824 ;  
F.B.I. 6 : 150. 1890.

*H. fusifera* Hook. f., l.c. 6 : 147. 1890.

*H. flavescens* Hook. f., l.c. 6 : 150. 1890.

*Distrib.* : Throughout India.

*World Distrib.* : South East Asia.

\***Habenaria multicaudata** Sedgw. in Rec. bot. Surv. India 6 :  
352. 1919.

*Distrib.* : Peninsular India ; endemic.

\***Habenaria nematocaulon** Hook. f., Fl. Brit. India 6 : 154. 1890.

*Distrib.* : Temperate Eastern Himalayas ; endemic.

\***Habenaria ovalifolia** Wight, Ic. 5(1) : 13. t. 1708. 1852 ; F.B.I.  
6 : 149. 1890.

? *H. modesta* Dalz. ; F.B.I. 6 : 166. 1890.

*H. hallbergii* Blatt. & McCann in J. Bombay nat. Hist. Soc. 36 :  
24. 1932.

*Distrib.* : Peninsular India ; endemic.

† \***Habenaria pachycaulon** Hook. f., Fl. Brit. India 6 : 154. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

\***Habenaria panchganiensis** Santapau & Kapadia in J. Bombay  
nat. Hist. Soc. 54 : 478. 1957.

*H. variabilis* Blatt. & McCann, l.c. 36 : 19 tt. 4-5. 1932. (non Ridley 1886).

*Distrib.* : Peninsular India ; endemic.

\***Habenaria panigrahiana** S. Misra in *Blumea* 27 : 213. 1981.

*Distrib.* : Eastern India ; endemic.

\*var. **parviloba** S. Misra, l.c.

*Distrib.* : Eastern India ; endemic.

**Habenaria pectinata** Don, *Prodr. Fl. Nepal* 24. 1825 ; *F.B.I.* 6 : 137. 1890.

*World Distrib.* : Temperate Himalayas.

\*var. **gigantea** U.C. Pradhan, *Ind. Orch.* II : 683. 1979.

*Distrib.* : North eastern India ; endemic.

\*var. **khasiensis** U.C. Pradhan, l. c. 684, 1979.

*Distrib.* : North eastern India ; endemic.

\***Habenaria perrottetiana** Rich. in *Ann. Sci. nat. Ser. 2.* 15 : 74, t. 48. 1841 ; *F.B.I.* 6 : 164. 1890.

*Distrib.* : Peninsular India ; endemic.

**Habenaria plantaginea** Lindl., *Gen. & Sp. Orch.* 323. 1835 ; *F.B.I.* 6 : 141. 1890.

*World Distrib.* : Throughout India, subtropical Himalayas, Burma & Sri Lanka.

\***Habenaria polyodon** Hook. f. *Fl. Brit. India* 6 : 139. 1890.

*Distrib.* : Peninsular India ; endemic.

**Habenaria polytricha** (Hook.f.) U.C. Pradhan, *Ind. Orch.* 1 : 68. 1976.

*H. stenopetala* var. *polytricha* Hook. f. in *Ann. Roy. Bot. Gard. Calcutta* 5 : 64. t. 96. 1895.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Eastern Asia.

**Habenaria pubescens** Lindl., Gen. & Sp. Orch. 322. 1835 ; F.B.I. 6 : 144. 1890.

*World Distrib.* : Subtropical Himalayas.

† **Habenaria pseudophrys** King & Pantl. in J. As. Soc. Bengal 65 : 133. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

\***Habenaria ramayana** S. T. Rama. Chary & J.J. Wood in Kew Bull. 36(2) : 235. 1981.

*Distrib.* : Eastern India ; endemic.

\***Habenaria rariflora** Rich. in Ann. Sci. nat. Ser. 2. 15 : 70 t. 20. 1841 ; F.B.I. 6 : 136. 1890.

*H. rariflora* var. *latifolia* Blatt. & McCann in J. Bombay nat. Hist. Soc. 36 : 17. 1932.

*Distrib.* : Peninsular India ; endemic.

**Habenaria reflexa** Bl., Bijdr. 403. 1825.

*H. murtoni* Hook.f., F.B.I. 6 : 144. 1890.

*H. malleifera* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 313. t. 411. 1898. (non Hook. f.).

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

**Habenaria reniformis** (D. Don) Hook. f., Fl. Brit. India 6 : 152. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Central Himalayas & Eastern Asia.

\***Habenaria richardiana** Wight, Ic. 5(1) : 14. t. 1713. 1852 ; F.B.I. 6 : 139. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Habenaria roxburghii** Nicolson in Fl. Hassan Dist. 834. 1976.

*H. platyphylla* (Willd.) Spreng. ; F.B.I. 6 : 140. 1890.

*Distrib.* : Central & Peninsular India ; endemic.

- Habenaria stenantha** Hook. f., Fl. Brit. India 6 : 153. 1890.  
*World Distrib.* : Temperate Himalayas & Eastern Asia.
- Habenaria stenopetala** Lindl., Gen. & Sp. Orch. 319. 1835; F.B.I. 6 : 134. 1890.  
*World Distrib.* : Widespread from India to Philippines.
- \***Habenaria suaveolens** Dalz. in Kew J. Bot. 2 : 263. 1850 ; F.B.I. 6 : 140. 1890.  
*Distrib.* : Peninsular India ; endemic.
- \***Habenaria trifurcata** Hook.f., Fl. Brit. India 6 : 148. 1890.  
*Distrib.* : North eastern India ; endemic.
- Habenaria virens** (Lindl.) Abeywick. in Ceylon J. Sci. Biol. Sci. 2(2) : 151. 1959.  
*H. barbata* Wight ; F.B.I. 6 : 133. 1890.  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka.
- Habenaria viridiflora** (Rottl. ex Sw.) R. Br., Prodr. Fl. N. Holl. 312. 1810 ; F.B.I. 6 : 150. 1890.  
*H. viridiflora* var. *dalzellii* Hook.f., l. c. 6 : 150. 1890.  
*Distrib.* : Peninsular India & Eastern India.  
*World Distrib.* : South East Asia.

#### HEMIPILIA Lindl.

- Hemipilia cordifolia** Lindl., Gen. & Sp. Orch. 296. 1833 ; F.B.I. 6 : 167. 1890.  
*Distrib.* : Temperate Western Himalayas.  
*World Distrib.* : India, Central Himalayas.

#### HERMINIUM Guett.

- \***Herminium angustilabre** King & Pantl. in J. As. Soc. Bengal 65 : 131. 1896.  
*Distrib.* : Eastern Himalayas ; endemic.
- Herminium duthiei** Hook. f., Fl. Brit. India 6 : 130. 1890.



*Distrib.* : Western Himalayas.

*World Distrib.* : Pakistan, India & Central Himalayas.

\***Herminium gracile** King & Pantl. in J. As. Soc. Bengal 65 : 131. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

\***Herminium jeffreyanum** King & Pantl. in J. As. Soc. Bengal 65 : 130. 1896.

*Distrib.* : Western & Eastern Himalayas ; endemic.

**Herminium josephii** Reichb. f. in Flora 276. 1872 ; F.B.I. 6 : 129. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Tibet.

\***Herminium kalimpongensis** U. C. Pradhan, Ind. Orch. II. 680. 1979.

*Distrib.* : Eastern Himalayas ; endemic.

**Herminium lanceum** (Thunb. ex Sw.) Vuijk in Blumea 11(1) : 228. 1961.

*H. angustifolium* (Lindl.) Benth. ex Hook. f., F.B.I. 6 : 129. 1890.

*Distrib.* : Temperate Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas, South East Asia & Far East.

\***Herminium longilobatum** Hegde & Rao in Hima. Pl. J. 1(2) : 47. 1982.

*Distrib.* : Eastern Himalayas ; endemic.

**Herminium mackinsonii** Duthie in J. As. Soc. Bengal 71 : 44. 1902.

*World Distrib.* : Temperate Himalayas.

**Herminium macrophyllum** (D. Don) Dandy in J. Bot. 70 : 328. 1932.

*H. congestum* Lindl. ; F.B.I. 6 : 130. 1890.

*World Distrib.* : Alpine Himalayas, Northern & Eastern Asia, Europe.

**Herminium monophyllum** (D. Don) Hunt & Summer. in Kew Bull. 20 : 51. 1969.

*H. gramineum* Lindl. ; F.B.I. 6 : 131. 1890.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Central Himalayas.

**Herminium monorchis** Br. ex Lindl., Gen. & Sp. Orch. 305. 1835 ; F.B.I. 6 : 128. 1890.

*World Distrib.* : Widespread from Europe through Central & West Asia, alpine Himalayas to South East Asia & Far East.

**Herminium orbiculare** Hook. f., Fl. Brit. India 6 : 130. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Eastern Asia.

**Herminium pungioniforme** Lindl. ex Hook. f., Fl. Brit. India 6 : 130. 1890.

*World Distrib.* : Alpine Himalayas & South East Tibet.

**Herminium quinquelobum** King & Pantl. in J. As. Soc. Bengal 65 : 130. 1896.

*World Distrib.* : Subalpine & alpine Himalayas.

#### HERPYSMA Lindl.

**Herpysma longicaulis** Lindl., Gen. & Sp. Orch. 506. 1840 ; F.B.I. 6 : 98. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

#### HETAERIA Blume

†\***Hetaeria anomala** Lindl. in J. Linn. Soc. 1 : 185. 1857 ; F.B.I. 6 : 116. 1890.

*Distrib.* : North eastern India ; endemic.

**Hetaeria obliqua** Bl. in Coll. Orch. Arch. Ind. 104. t. 34. 1858.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

**Hetaeria oblongifolia** (Bl.) Bl. in Coll. Orch. Arch. Ind. 102. t. 32. 1858.

*H. helferi* Hook. f., F.B.I. 6 : 115. 1890.

*Distrib.* : Andaman & Nicobar islands.

*World Distrib.* : South East Asia.

\***Hetaeria ovalifolia** Benth. in Gen. Pl. 3 : 604. 1883 ; F.B.I. 6 : 115. 1890.

*Distrib.* : Peninsular India ; endemic.

**Hetaeria rubens** (Lindl.) Benth. ex Hook. f., Fl. Brit. India 6 : 115. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

IONE Lindl. (see SUNIPIA)

IPSEA Lindl. (see SPATHOGLOTTIS)

KALIMPONGIA U. C. Pradhan

\***Kalimpongia narajitii** U. C. Pradhan in Orch. Dig. 41(5) : 171. f. 1977.

*Distrib.* : North eastern India ; endemic.

KINGIDIUM P. F. Hunt

**Kingidium decumbens** (Griff.) Hunt in Kew Bull. 24 : 97. 1970.

*Dortis wightii* (Reichb. f.) Hook. f., F.B.I. 6 : 32. 1890.

*Distrib.* : Peninsular India & Eastern Himalayas.

*World Distrib.* : South East Asia.

**Kingidium taenialis** (Lindl.) Hunt in Kew Bull. 24 : 68. 1970.

*Dortis taenialis* (Lindl.) Hook. f., F.B.I. 6 : 31. 1890.

*World Distrib.* : Subtropical Himalayas & Eastern Asia.

LIPARIS Rich. (also see MALAXIS)

\***Liparis acuminata** Hook. f., Fl. Brit. India 5 : 698. 1890.

*Distrib.* : North eastern India ; endemic.

- \***Liparis assamica** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta  
8 : 36 t. 50. 1898.  
*Distrib.* : North eastern India ; endemic.
- Liparis atropurpurea** Lindl., Gen. & Sp. Orch. 28. 1830 ; F.B.I.  
5 : 698. 1890.  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka.
- \***Liparis beddomei** Ridl. in J. Linn. Soc. 22. 268. 1886 ; F.B.I.  
5 : 695. 1890.  
*Distrib.* : Peninsular India ; endemic.
- \***Liparis biloba** Wight, Ic. 5(1) : 4. t. 1633. 1852 ; F.B.I. 5 : 699.  
1890.  
*Distrib.* : Peninsular India ; endemic.
- Liparis bistriata** Par. & Reichb. f. in Trans. Linn. Soc. 30 : 155.  
1874 ; F.B.I. 5 : 702. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- \*var. **robusta** Hook. f., Fl. Brit. India 5 : 702. 1890.  
*Distrib.* : North eastern India ; endemic.
- Liparis bituberculata** (Hook.) Lindl. in Bot. Reg. sub t. 882. 1824 ;  
F.B.I. 5 : 696. 1890.  
*Distrib.* : Western & Eastern Himalayas, North eastern India.  
*World Distrib.* : India, Central Himalayas.
- Liparis bootanensis** Griff., Itin. Not. 98. 1848 (descr.) & Not.  
Pl. 3 : 278. 1851 (name) ; F.B.I. 5 : 700. 1890.  
*L. lancifolia* Hook.f. and *L. pachypus* Par. & Reichb. f. ; F.B.I. 5 :  
700. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Central Himalayas, South East Asia.
- Liparis caespitosa** (Thou.) Lindl. in Bot. Reg. 11. subt. 882. 1825.  
*L. pusilla* Ridl., *L. duthiei* Hook. f. & *L. obscura* Hook. f., F.B.I.  
5 : 701. 1890.

- L. prainii* Hook f., l.c. 5 : 700. 1890.  
*Distrib.* : Western & Eastern Himalayas, North eastern India.  
*World Distrib.* : India, Central Himalayas, Africa to Pacific.
- Liparis campylostalix** Reichb. f. in *Linnaea* 41 : 45. 1877 ; F.B.I. 5 : 694. 1890.  
*Distrib.* : India (Locality unknown).  
*World Distrib.* : India, Eastern Asia.
- Liparis cathcartii** Hook. f., *Ic. Pl. t.* 1808. 1889 ; F.B.I. 5 : 694. 1890.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India, Central Himalayas.
- Liparis cordifolia** Hook. f., *Ic. Pl. t.* 1811. 1889 ; F.B.I. 5 : 692. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Central Himalayas.
- \***Liparis deflexa** Hook. f., *Fl. Brit. India* 5 : 697. 1890.  
*L. flavoviridis* Blatt. & McCann in *J. Bombay nat. Hist. Soc.* 32 : 260. fig. 6. 1931.  
*Distrib.* : Peninsular India, Western & Eastern Himalayas ; endemic.
- Liparis delicatula** Hook. f., *Ic. Pl. t.* 1889. 1889 ; F.B.I. 5 : 705. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.
- Liparis distans** Clarke in *J. Linn. Soc.* 25 : 71. t. 29. 1889 ; F.B.I. 5 : 704. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia.
- Liparis downii** Ridl. in *J. Str. Br. Roy. As. Soc.* 49 : 27. 1907.  
*Distrib.* : Peninsular India.  
*World Distrib.* : South East Asia.

**Liparis elliptica** Wight, Ic. 5 : t. 1753. 1852.

*L. viridiflora* auct non Lindl. p. p., Thw. Enum. Pl. Zeyl. 295. 1864 ; F.B.I. 5 : 704. 1890.

*Distrib.* : Peninsular India, Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

† **\*Liparis gamblei** Hook. f., Ic. Pl. t. 1812. 1889 ; F.B.I. 5 : 693. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

**Liparis glossula** Reichb. f. in Linnaea 41 : 44. 1877 ; F.B.I. 5 : 693. 1890.

*Distrib.* : Western & Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Eastern Asia.

**Liparis khasiana** (Hook. f.) Tang & Wang in Act. Phytotax. Sin. 1 : 1. 1951.

*Distrib.* : North eastern India.

*World Distrib.* : India, Eastern Asia.

**Liparis luteola** Lindl., Gen. & Sp. Orch. 32. 1830 ; F.B.I. 5 : 704. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**\*Liparis macrocarpa** Hook. f., Fl. Brit. India 5 : 696. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Liparis mannii** Reichb. f., in Flora 55 : 275. 1872 ; F.B.I. 5 : 701. 1890.

*L. tenuifolia* Hook. f., Ic. Pl. t. 2013. 1890 ; F.B.I. 6 : 182. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Liparis nervosa** (Thunb.) Lindl., Gen. & Sp. Orch. 26. 1830.

*World Distrib.* : Widespread in Old World & New World.

**Liparis paradoxa** (Lindl.) Reichb. f. in Walp. Ann. 6 : 218. 1861 ; F.B.I. 5 : 697. 1890.

*L. parishii* (Hook.f.) Hook.f., l.c. 6 : 182. 1890.

*Distrib.* : Peninsular India & North eastern India.

*World Distrib.* : Temperate Himalayas, South East Asia.

**Liparis perpusilla** Hook. f., Ic. Pl. t. 1856 B. 1889 ; F.B.I. 5 : 706. 1890.

*L. togashii* Tuyama ex Hara, Fl. E. Himal. 441. 1966.

*World Distrib.* : Temperate & subtemperate Himalayas.

**Liparis petiolata** (D. Don) Hunt & Summer. in Kew Bull. 20 : 52. 1966.

*L. nepalensis* Lindl. & *L. pulchella* Hook. f., F.B.I. 5 : 693. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Liparis plantaginea** Lindl., Gen. & Sp. Orch. 29. 1830 ; F.B.I. 5 : 702. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**\*Liparis platyphylla** Ridl. in J. Linn. Soc. 22 : 264. 1886 ; F.B.I. 5 : 695. 1890.

*Distrib.* : Peninsular India ; endemic.

**Liparis platyrachis** Hook. f., Ic. Pl. t. 1890. 1889 ; F.B.I. 5 : 706. 1890.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

**Liparis pygmaea** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 34. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Eastern Asia.

**Liparis resupinata** Ridl. in J. Linn. Soc. 22 : 290. 1886 ; F.B.I. 5 : 705. 1890.

*L. ridleyi* Hook. f., Ic. Pl. t. 1887. 1889 ; F.B.I. 5 : 705. 1890.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

**Liparis rostrata** Reichb. f. in *Linnaea* 41 : 44. 1877 ; F.B.I. 5 : 694. 1890.

*L. diodon* Reichb. f. ; F.B.I. 5 : 693. 1890.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Central Himalayas.

\***Liparis rupestris** Griff., *Not. Pl.* 3: 276. 1851; F.B.I. 5: 692. 1890.

*Distrib.* : North eastern India; endemic.

**Liparis stricklandiana** Reichb. f. in *Gard. Chron.* 1 : 232. 1880 ;

F.B.I. 5 : 707. 1890.

*L. griffithii* Ridl. ; F.B.I. 5 : 700. 1890.

*L. dolabella* Hook. f., *l.c.* 6 : 183. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Liparis torta** Hook. f., *l.c.* Pl. t. 2014. 1890 ; F.B.I. 6 : 182. 1890.

*Distrib.* : North eastern India ; endemic.

\***Liparis vestita** Reichb. f. in *Flora* 55 : 274. 1872 ; F.B.I. 5 : 703. 1890.

*Distrib.* : North eastern India ; endemic.

**Liparis viridiflora** (Bl.) Lindl., *Gen. & Sp. Orch.* 31 : 1830 p.p. ;

F.B.I. 5 : 704. 1890.

*L. longipes* Lindl. ; F.B.I. 5 : 703. 1890.

? *L. stachyurus* Reichb. f. ; F.B.I. 5 : 707. 1890.

*Distrib.* : Peninsular India & North eastern India.

*World Distrib.* : Temperate Himalayas, South East Asia.

**Liparis walkeriae** Graham in *Bot. Mag.* t. 3770. 1839 ; F.B.I. 5 : 698. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Liparis wightiana** Thw., *Enum. Pl. Zeyl.* 295. 1864. ; F.B.I. 5 : 695. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.



## LISTERA R. Br. (also see NEOTTIA)

- \***Listera alternifolia** King & Pantl. in J. As. Soc. Bengal 65 : 126.  
1896.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Listera brevicaulis** King & Pantl. in J. As. Soc. Bengal 65 : 126.  
1896.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Listera dentata** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta  
8 : 257. 1898.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Listera divaricata** Panigrahi & P. Taylor in Kew Bull. 20 : 559.  
1975.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Listera longicaulis** King & Pantl. in J. As. Soc. Bengal 65 : 126.  
1896.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Listera micrantha** Lindl. in J. Linn. Soc. 1 : 176. 1857 ; F.B.I.  
6 : 104. 1890.  
*Distrib.* : Eastern Himalayas ; endemic.
- Listera ovata** (L.) R. Br. in Hort. Kew 5 : 201. 1813 ; F.B.I. 6 :  
104. 1890.  
*Distrib.* : Western Himalayas.  
*World Distrib.* : India, Central Asia & Europe.
- Listera pinetorum** Lindl. in J. Linn. Soc. 1 : 175. 1857 ; F.B.I.  
6 : 104. 1890.  
*L. mucronata* Panigrahi & J. J. Wood in Kew Bull. 29 : 731. f. 1.  
1974.  
*World Distrib.* : Himalayas & Tibet.
- Listera tenuis** Lindl. in J. Linn. Soc. 1 : 176. 1857 ; F.B.I. 6 :  
104. 1890.

*Distrib.* : Subalpine Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Tibet.

#### LOXOMA Garay

\***Loxoma maculata** (Dalz.) Garay in J. Arn. Arb. 53(3) : 202. 1972.

*Saccolabium maculatum* (Dalz.) Hook. f., F.B.I. 6 : 64. 1890.

*Distrib.* : Peninsular India ; endemic.

\***Loxoma straminea** (Saldanha) U.C. Pradhan, Ind. Orch. II : 522. 1979.

*Smithsonia straminea* Saldanha in J. Bombay nat. Hist. Soc. 71(1) : 73. 1974.

*Distrib.* : Peninsular India ; endemic.

**Loxoma viridiflora** (Dalz.) U.C. Pradhan, Ind. Orch. II : 522. 1979.

*Saccolabium viridiflorum* Lindl. ; F.B.I. 6 : 63. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

#### LUISIA Gaud.

\***Luisia abrahami** Vatsala, Intr. Orch. S. India 489. 1981.

*Distrib.* : Peninsular India ; endiemic.

**Luisia amesiana** Rolfe in Kew Bull. 172. 1893.

*Distrib.* : Andaman islands.

*World Distrib.* : India, Burma.

**Luisia birchea** (A. Rich.) Bl. in Mus. Bot. Lugd. Bat. 1 : 64. 1849.

*L. tenuifolia* A. Rich. ; F.B.I. 6 : 24. 1890.

and var. *evangelinae* (Blatt. & McCann) Santapau & Kapadia in J. Bombay nat. Hist. Soc. 59 : 829. 1962.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Luisia brachystachys** (Lindl.) Bl. in Rumph. 4 : 50. 1848 ; F.B.I. 6 : 23. 1890.

*L. indivisa* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 201. 1898.

*Distrib.* : Tropical Western & Eastern Himalayas & Eastern India.

*World Distrib.* : India, Bangladesh, Burma and Thailand.

**Luisia filiformis** Hook. f., Fl. Brit. India 6 : 23. 1890.

*L. grovesii* Hook. f., l.c. 25. 1890.

*Distrib.* : Eastern Himalayas, Eastern & North eastern India.

*World Distrib.* : South East Asia.

\***Luisia macrantha** Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 492. t. 10. 1932.

*Distrib.* : Peninsular India ; endemic.

**Luisia macrotis** Reichb. f. in Gard. Chron. 1110. 1869 ; F.B.I. 6 : 24. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

†\***Luisia micrantha** Hook.f., Fl. Brit. India 6 : 23. 1890.

*Distrib.* : North eastern India ; endemic.

\***Luisia pulniana** Vatsala, Intr. Orch. S. India 487. 1981.

*Distrib.* : Peninsular India ; endemic.

**Luisia trichorhiza** (Hook.) Bl. in Mus. Bot. 1 : 63. 1849 ; F.B.I. 6 : 23. 1890.

*World Distrib.* : Tropical Himalayas & Southern Asia.

†\***Luisia volucris** Lindl., Fol. Orch. 1 : 1853 ; F.B.I. 6 : 25. 1890.

*Distrib.* : North eastern India ; endemic.

**Luisia zeylanica** Lindl., Fol. Orch. 3. 1853.

*L. teretifolia* auct. non Gaud.; Hook. f., F.B.I. 6 : 22. 1890. p.p.

*World Distrib.* : Widespread from India to Philippines.

MALAXIS Soland. ex Sw.

**Malaxis acuminata** D. Don., Prodr. Fl. Nepal 29. 1825 ; F.B.I. 5 : 686. 1888.

*Microstylis biloba* Lindl. and *Microstylis wallichii* var. *omphaloides* Par. ex Ridl. ; F.B.I. 5 : 686. 1888.

*World Distrib.* : Widespread from India to Philippines.

\***Malaxis andamanica** (King & Pantl.) Balak. & Vasud. in Bull. bot. Surv. India 21 : 177. 1979.

*Microstylis andamanica* King & Pantl. in J. As. Soc. Bengal 66 : 582. 1897.

*Microstylis wallichii* sensu Hook. f., F.B.I. 5 : 686. 1888. (quoad Andaman specimens).

*Microstylis biaurita* sensu Hook. f., l.c. 687. 1890. (quoad Andaman specimens).

*Distrib.* : Andaman islands ; endemic.

\***Malaxis aphylla** (King & Pantl.) Tang & Wang in Act. Phytotax. Sin. 1 : 1. 1951.

*Microstylis aphylla* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 18. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

**Malaxis biaurita** (Lindl.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis biaurita* Lindl. ; F.B.I. 5 : 687. 1890. (excl. Andaman specimens).

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Malaxis calophylla** (Reichb. f.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis scottii* Hook f., F.B.I. 5 : 687. 1890.

*Microstylis wallichii* var. *brachycheila* Hook. f., l.c. 686. 1888..

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

\***Malaxis crenulata** (Ridl.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis crenulata* Ridl. ; F.B.I. 5 : 691. 1890.

*Distrib.* : Peninsular India ; endemic.

**Malaxis cylindrostachya** (Lindl.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis cylindrostachya* Reichb. f. ; F.B.I. 5 : 689. 1890.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

**Malaxis densiflora** (Rich.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis versicolor* Wight & *Microstylis luteola* Wight ; F.B.I. 5 : 691. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sir Lanka.

**\*Malaxis intermedia** (Rich.) Seidenf. in Bot. Tidskr. 73(2) : 99. 1978.

*Liparis intermedia* Rich. ; F.B.I. 5 : 690. 1890.

*Microstylis stocksii* Hook. f., F.B.I. 5 : 691. 1890.

*Distrib.* : Peninsular India ; endemic.

**\*Malaxis josephiana** (Reichb. f.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis josephiana* Reichb. f. ; F.B.I. 5 : 687. 1890.

*Distrib.* : Tropical Eastern Himalayas ; endemic.

**Malaxis khasiana** (Hook. f.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis khasiana* Hook. f., F.B.I. 5 : 686. 1888.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas, Eastern Asia.

**Malaxis latifolia** J. E. Sm. in Rees. Cyclop. 22. 1812 ; F.B.I. 5 : 689. 1890.

*Distrib.* : Widespread from India to Australia.

**Malaxis mackinnonii** (Duthie) Ames, Orch. 6 : 289. 1920.

*Microstylis mackinnonii* Duthie in J. As. Soc. Bengal 71 : 37. 1902.

*Microstylis cardonii* Prain, Bengal Pl. 1004. 1903.

*Distrib.* : Almost throughout India.

*World Distrib.* : India, Eastern Asia.

**\*Malaxis maximowicziana** (King & Pantl.) Tang & Wang in Act. Phytotax. Sin. 1 : 1. 1951.

*Microstylis maximowicziana* King & Pantl. in J. As. Soc. Bengal 64 : 329. 1895.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Malaxis mucifera** (Lindl.) Kuntze, Rev. Gen. Pl. 2 : 673. 1891.

*Microstylis mucifera* (Lindl.) Ridl. ; F.B.I. 5 : 689. 1890.

*World Distrib.* : From Afghanistan to Temperate Himalayas and South East Tibet.

**Malaxis purpurea** (Lindl.) Kuntze, Rev. Gen. Pl. 2 : 763. 1891.

*Microstylis purpurea* Lindl. ; F.B.I. 5 : 687. 1890.

*Microstylis wallichii* var. *biloba* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 16. t. 19. 1898. (non *Microstylis biloba* Lindl.).

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

**Malaxis rheedii** Sw. in Kyl. vet. nya. Hanoll. 21 : 235. 1800 ; F.B.I. 5 : 688. 1890.

*Microstylis rheedii* Wight ; F.B.I. 5 : 690. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

†\***Malaxis saprophyta** (King & Pantl.) Tang & Wang in Act. Phytotax Sin. 1 : 1. 1951.

*Microstylis saprophyta* King & Pantl. in J. As. Soc. Bengal 65 : 118. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

#### MALLEOLA J.J.Sm. & Schltr.

\***Malleola andamanica** Balak. & Bhargava in Proc. Ind. Acad. Sci. 88B : 317. 1979.

*Distrib.* : Andaman islands ; endemic.

**Malleola gracilis** (Lindl.) Schltr., Fedde Repert. 1 : 981. 1913.

*Saccolabium gracile* Lindl. ; F.B.I. 6 : 57. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Malleola rosea** (Lindl.) Schltr., Fedde Repert. 1 : 981. 1913.

*Saccolabium roseum* Lindl. ; F.B.I. 6 : 58. 1890.

*S. rostellatum* Hook. f., l.c. 6 : 59. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

MICROPERA Lindl.

\***Micropera mannii** (Hook.f.) Tang & Wang in Act. Phytotax. Sin. 1(1) : 94. 1951.

*Sarcochilus mannii* Hook. f., F.B.I. 6 : 36. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Micropera obtusa** (Lindl.) Tang & Wang in Act. Phytotax. Sin. 1(1) : 94. 1951.

*Sarcochilus obtusus* (Lindl.) Benth. ex Hook. f., F.B.I. 6 : 36. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Southern Asia.

**Micropera rostratum** (Roxb.) Balak. in J. Bombay nat. Hist. Soc. 67(1) : 66. 1970.

*Sarcochilus purpureus* (Lindl.) Benth. ex Hook f., F.B.I. 6 : 36. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

MICROSTYLIS (Nutt.) Eaton (see MALAXIS)

MONOMERIA Lindl.

**Monomeria barbata** Lindl., Gen. & Sp. Orch. 61. 1830 ; F.B.I. 5 : 781. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Burma.

MYRMECHIS Blume

**Myrmechis pumila** (Hook. f.) Tang & Wang in Act. Phytotax. Sin. 1(1) : 69. 1951.

*Odontochilus pumilus* Hook.f., F.B.I. 6 : 99. 1890.

*Cheirostylis franchetiana* King & Pantl. in J. As. Soc. Bengal 64 : 341. 1895.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : Central Himalayas & South East Asia.

#### NEOGYNA Reichb. f.

**Neogyne gardneriana** (Lindl.) Reichb. f. ex Pfitz. in Engler Pflân. fam. 2, 6 : 126. f. 127a. 1888.

*Coelogyne gardneriana* Lindl. ; F.B.I. 5 : 828. 1890.

*Distrib.* : Subtropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

#### NEOTTIA Guett.

**Neottia listeroides** Lindl., Gen. & Sp. Orch. 458. 1840 ; F.B.I. 6 : 103. 1890.

*Listera lindleyana* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 258. 1898.

*World Distrib.* : Temperate Himalayas, Burma & South East Tibet.

#### NEPHELAPHYLLUM Blume

\***Nephelaphyllum cordifolium** Lindl. in J. Linn. Soc. 3 : 23. 1859 ; F.B.I. 5 : 818. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

\***Nephelaphyllum nudum** Hook. f., Fl. Brit. India 6 : 192. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

#### NERVILIA Comm. ex Gaud.

**Nervilia aragoana** Gaud. in Freycinet, Voy. Bot. 422. t. 35. 1829.

*Pogonia flabelliformis* Lindl. ; F.B.I. 6 : 121. 1890.

? *P. carinata* Lind. & ? *P. scottii* Reichb. f. ; F.B.I. 6 : 121. & 120. 1890.

*Distrib.* : Throughout India (except Northwest India).

*World Distrib.* : South East Asia.



- Nervilia gammieana** (Hook. f.) Schltr. in Engler, Bot. Jahrb. 45 : 404. 1911.  
*Pogonia gammieana* Hook. f., F.B.I. 6 : 120. 1890.  
*World Distrib.* : Tropical Himalayas.
- \***Nervilia hispida** Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 728. 1932.  
*Distrib.* : Peninsular India ; endemic.
- †\***Nervilia hookeriana** (King & Pantl.) Schltr. in Engler, Bot. Jahrb. 45 : 403. 1911.  
*Pogonia hookeriana* King & Pantl. in J. As. Soc. Bengal 65 : 129. 1896.  
*Distrib.* : Eastern Himalayas ; endemic.
- Nervilia infundibulifolia** Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 725. t. 3. 1932.  
*N. hallbergii* Blatt. & McCann, l.c. 726. 1932.  
*Distrib.* : Peninsular India.  
*World Distrib.* : Southern Asia.
- Nervilia juliana** (Roxb.) Schltr. in Engler, Bot. Jahrb. 45 : 402. 1911.  
*Pogonia juliana* (Roxb.) Lindl. ; F.B.I. 6 : 119. 1890.  
*Distrib.* : Peninsular, Eastern & North eastern India.  
*World Distrib.* : Southern Asia.
- \***Nervilia mackinnonii** (Duthie) Schltr. in Engler, Bot. Jahrb. 45 : 402. 1911.  
*Pogonia mackinnonii* Duthie in J. As. Soc. Bengal 71 : 43. 1902.  
*Distrib.* : Western Himalayas ; endemic.
- Nervilia macroglossa** (Hook. f.) Schltr. in Engler, Bot. Jahrb. 45 : 403. 1911.  
*Pogonia macroglossa* Hook. f., F.B.I. 6 : 120. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Central Himalayas & Southern Asia.
- Nervilia plicata** (Andr.) Schltr. in Engler, Bot. Jahrb. 45 : 403. 1911.

*Pogonia biflora* Wight & *P. plicata* (Roxb.) Lindl. ; F.B.I. 6 : 119. 1890.

*N. discolor* (Bl.) Schltr., l.c.

*Distrib.* : Throughout India (except Northwest India).

*World Distrib.* : South East Asia.

**Nervilia prainiana** (King & Pantl.) Seidenf. in Dansk Bot. Ark. 32(2) : 149. 1978.

*Pogonia prainiana* King & Pantl. in J. As. Soc. Bengal 65 : 129. 1896.

*N. monantha* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 724. 1932.

*Distrib.* : Eastern Himalayas, North eastern & Peninsular India.

*World Distrib.* : Southern Asia.

**Nervilia punctata** (Bl.) Makino in Bot. Mag. Tokyo 16 : 199. 1902  
*nomen tantum.*

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

#### OBERONIA Lindl.

**Oberonia acaulis** Griff., Not. Pl. 3 : 275. 1851 ; F.B.I. 5 : 679. 1888.

*World Distrib.* : Subtropical Himalayas, South East Asia.

\***Oberonia anamalayana** Joseph in J. Bombay nat. Hist. Soc. 42 : 222. 1964.

*Distrib.* : Peninsular India ; endemic.

\***Oberonia angustifolia** Lindl., Fol. Orch. 5. 1859 ; F.B.I. 5 : 684. 1888.

*Distrib.* : Eastern Himalayas and North eastern India ; endemic.

**Oberonia anthropophora** Lindl., Gen. & Sp. Orch. 16 : 1830 ; F.B.I. 5 : 684. 1888.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

\***Oberonia auriculata** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 13. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

\***Oberonia bellii** Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 256. f. 1. 1931.

*Distrib.* : Peninsular India ; endemic.

**Oberonia bicornis** Lindl., Gen. & Sp. Orch. 16. 1830 ; F.B.I. 5 : 682. 1888.

*O. umbonata* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 259. 1931.

*Distrib.* : Peninsular India & North eastern India.

*World Distrib.* : India, Sri Lanka.

\***Oberonia brachyphylla** Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 257. t. 2. 1931.

*Distrib.* : Peninsular India ; endemic.

**Oberonia brachystachya** Lindl., Sert. Orch. Sub. t. 8. 1838; F.B.I. 5 : 677. 1888.

*O. demissa* Lindl. ; F.B.I. 5 : 680. 1888.

*Distrib.* : Tropical Eastern Himalayas.

*World Distrib.* : South East Asia.

\***Oberonia brunoniana** Wight, Ic. 5(1) : 3. t. 1622. 1852 ; F.B.I. 5 : 681. 1888.

*Distrib.* : Peninsular India ; endemic.

**Oberonia caulescens** Lindl., Fol. Orch. 15. 1830 ; F.B.I. 5 : 682. 1888.

*O. longilabris* King & Pantl. in J. As. Soc. Bengal 64 : 330. 1895.

*World Distrib.* : Tropical & subtropical Himalayas, Eastern Asia.

**Oberonia clarkei** Hook. f., Ic. Pl. t. 1779. 1888 ; F.B.I. 5 : 676. 1888.

*Distrib.* : North eastern India.

*World Distrib.* : India, Yunan.

**Oberonia emarginata** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 6. 1898.

*O. micrantha* King & Pantl., l.c. 8 : 6. 1898.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.

**Oberonia ensiformis** (J. E. Sm.) Lindl., Fol. Orch. 21. 1859 ;  
F.B.I. 5 : 679. 1888.

*Distrib.* : Almost throughout India (except hotter parts).  
*World Distrib.* : Tropics of South East Asia.

**Oberonia falcata** King & Pantl. in J. As. Soc. Bengal 64 : 329.  
1895.

*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Tropics & subtropics of South East Asia.

**Oberonia falconeri** Hook. f., Ic. Pl. t. 1780. 1888; Fl. Brit. India.  
5 : 678. 1888.

*Distrib.* : Almost throughout India.  
*World Distrib.* : Tropical South East Asia.

**Oberonia gammiei** King & Pantl. in J. As. Soc. Bengal 66 : 578.  
1897.

*Distrib.* : Peninsular India & Eastern India.  
*World Distrib.* : South East Asia.

**Oberonia griffithiana** Lindl., Sert. Orch. t. 8B. 1838 ; F.B.I. 5 :  
676. 1888.

*Distrib.* : Western Himalayas.  
*World Distrib.* : South East Asia.

**Oberonia iridifolia** (Roxb.) Lindl., Gen. & Sp. Orch. 15. 1830.  
p.p. (excl. syn. *Malaxis ensiformis*) ; F.B.I. 5 : 675. 1888.

*World Distrib.* : Widespread from India to Pacific.

**Oberonia jenkinsiana** Griff. ex Lindl., Fol. Orch. 20. 1859 ; F.B.I.  
5 : 676. 1888.

*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Eastern Asia.

\***Oberonia josephi** Saldanha in Ind. For. 100 : 569. t. 2. 1974.

*Distrib.* : Peninsular India ; endemic.

\***Oberonia lobulata** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 4. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

**Oberonia longibracteata** Lindl., Gen. & Sp. Orch. 15. 1830 ; F.B.I. 5 : 678. 1888.

*Distrib.* : Peninsular India.

*World Distrib.* : South East Asia.

\***Oberonia mannii** Hook. f., Fl. Brit. India 6 : 180. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Oberonia maxima** Par. ex Hook. f., Fl. Brit. India 5 : 677. 1888.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Oberonia myosurus** Lindl., Gen. & Sp. Orch. 16. 1830. (p. p. excl. syn. & loc. Society Isl.) ; F.B.I. 5 : 685. 1888.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Central Himalayas & Eastern Asia.

**Oberonia obcordata** Lindl., Fol. Orch. 43. 1859 ; F.B.I. 5 : 684. 1888.

*O. treutleri* Hook f., F.B.I. 5 : 683. 1888.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas, South East Asia,

\***Oberonia orbicularis** Hook. f., Fl. Brit. India 5 : 677. 1888.

*Distrib.* : Eastern Himalayas ; endemic.

**Oberonia pachyphylla** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 5. t. 4. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

**Oberonia pachyrachis** Reichb. f. ex Hook. f., Fl. Brit. India 5 : 681. 1888.

*World Distrib.* : Tropical Himalayas, Eastern Asia.

\***Oberonia platycaulon** Wight, Ic. 5(1) : 3. t. 1623. 1852 ; F.B.I. 5 : 682. 1888.

*Distrib.* : Peninsular India ; endemic.

**Oberonia prainiana** King & Pantl. in J. As. Soc. Bengal 64 : 331. 1895.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

\***Oberonia proudlockii** King & Pantl. in J. As. Soc. Bengal 66 : 580. 1897.

*O. sedgwickii* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 287. 1931.

*Distrib.* : Peninsular India ; endemic.

**Oberonia pyrulifera** Lindl., Fol. Orch. 15 : 1859 ; F.B.I. 5 : 678. 1888.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Eastern Asia.

**Oberonia recurva** Lindl., Fol. Orch. 5. 1852 ; F.B.I. 5 : 680. 1888.

*O. croftiana* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 7. 1898.

*O. parvula* King & Pantl. in J. As. Soc. Bengal 64 : 330. 1895.

var. *lingmalensis* (Blatt. & McCann) Santapau & Kapadia in J. Bombay nat. Hist. Soc. 57 : 259. 1960.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka, Bhutan and Thailand.

**Oberonia rufilabris** Lindl., Sert. Orch. t. 8A. 1838 ; F.B.I. 5 : 686. 1888.

*World Distrib.* : Tropical South East Asia.

\***Oberonia santapau** Kapadia in J. Bombay nat. Hist. Soc. 57 : 265. 1960.

*O. lindleyana* Wight ; F.B.I. 5 : 681. 1888.

*Distrib.* : Peninsular India ; endemic.

\***Oberonia sebastiana** Shetty & Vivek. in Bull. bot. Surv. India  
17 : 157. 1975. (1978).

*Distrib.* : Peninsular India ; endemic.

\***Oberonia seidenfadeniana** Joseph & Vajravelu in Bull. bot. Surv.  
India 13 : 344. 1971.

*Distrib.* : Peninsular India ; endemic.

\***Oberonia sulcata** Joseph & Chowd. in J. Bombay nat. Hist.  
Soc. 63 : 54. 1966.

*Distrib.* : Eastern Himalayas ; endemic.

**Oberonia tenuis** Lindl., Fol. Orch. 3 : 1859 ; F.B.I. 5 : 682. 1888.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Oberonia verticillata** Wight, Ic. 5(1) : 3. t. 1626. 1852 ; F.B.I. 5 :  
677. 1888.

*O. verticillata* var. *longibracteata* Blatt. & McCann in J. Bombay  
nat. Hist. Soc. 35 : 255. 1931.

*O. spiralis* Blatt. & McCann, l.c. 256. 1931. (non Griff. 1851, nec.  
Lindl. 1852).

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Oberonia wightiana** Lindl. in Bot. Reg. Misc. 9. 1839 ; F.B.I. 5 :  
683 1888.

*Distrib.* : Peninsular India.

*World Distrib.* : India & Sri Lanka.

**Oberonia zeylanica** Hook. f., Ic. Pl. 18. t. 1782. 1888 ; F.B.I. 5 :  
680. 1888.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

ODONTOCHILUS Blume (see ANOECTOCHILUS and MYRMECHIS)

ORCHIS L. (also see AORCHIS, AMITOSTIGMA, DACTYLORHIZA,  
GYMNAEDENIA and PONERORCHIS)

\***Oreorchis graggeriana** Soo in J. Bot. Cond. 66 : 15. 1928.

*Distrib.* : Western Himalayas ; endemic.

OREORCHIS Lindl.

**Oreorchis foliosa** (Lindl.) Lindl. in J. Linn. Soc. 3 : 27. 1859 ;  
F.B.I. 5 : 709. 1890.

*World Distrib.* : Temperate Himalayas & South East Asia.

† \***Oreorchis indica** (Lindl.) Hook. f., Fl. Brit. India 5 : 709.  
1890.

*Distrib.* : Western Himalayas ; endemic.

**Oreorchis micrantha** Lindl. in J. Linn. Soc. 3 : 27. 1859 ; F.B.I.  
5 : 709. 1890.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

\***Oreorchis rolfei** Duthie in J. As. Soc. Bengal 71 : 38. 1902.

*Distrib.* : Western Himalayas ; endemic.

ORNITHOCHILUS (Lindl.) Benth.

**Ornithochilus difformis** (Wall.) Schltr., Orch. Sino-Japan. 4 :  
277. 1919.

*Aerides difforme* Wall. ; F.B.I. 6 : 76. 1890.

*World Distrib.* : Tropical Himalayas & South East Asia.

OTOCHILUS Lindl.

**Otochilus alba** Lindl., Gen. & Sp. Orch. 35. 1830 ; F.B.I. 5 : 843.  
1890.

*World Distrib.* : Temperate Himalayas & Eastern Asia.

**Otochilus fusca** Lindl., Gen. & Sp. Orch. 35. 1830 ; F.B.I. 5 : 844.  
1890.

*World Distrib.* : Subtropical & temperate Himalayas, South  
East Asia.

**Otochilus lancilabius** Seidenf. in Bot. Tidisk. 71 : 13. 1976.



*World Distrib.* : Subtropical & temperate Himalayas, South East Asia.

**Otochilus porrecta** Lindl., Gen. & Sp. Orch. 36. 1830 ; F.B.I. 5 : 844. 1890.

*World Distrib.* : Subtropical & temperate Himalayas, South East Asia.

PACHYSTOMA Blume

**Pachystoma senile** (Lindl.) Reichb. f., Bonplandia 3 : 250. 1858 ; F.B.I. 5 : 812. 1890.

*Distrib.* : Throughout India (except Northwest India).

*World Distrib.* : South East Asia.

PANISEA (Lindl.) Lindl.

**Panisea demissa** (D. Don) Pfitz. in Engler, Pfan. Fam. 4. 50. 2.B 32 : 141. t. 49. 1907.

*P. parviflora* (Lindl.) Lindl. ; F.B.I. 6 : 783. 1890.

*Distrib.* : Subtropical Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Panisea tricallosa** Rolfe in Kew Bull. 148. 1901.

*Distrib.* : Eastern Himalayas and North eastern India.

*World Distrib.* : Southern Asia.

PANTLINGIA Prain

**\*Pantlingia paradoxa** Prain in J. As. Soc. Bengal 65 : 107. 1896.

*Distrib.* : Eastern Himalayas & North eastern India; endemic.

**\*Pantlingia serrata** Deori in Bull. bot. Surv. India 20 : 175. 1978. (1979).

*Distrib.* : North eastern India ; endemic.

## ++PAPHIOPEDILUM Pfitz.

**\*Paphiopedilum druryi** (Bedd.) Stein in Orchideenbuch 466.  
1892.

*Cypripedium druryi* Bedd. ; F.B.I. 6 : 172. 1890.

*Distrib.* : Peninsular India ; endemic.

**Paphiopedilum fairieanum** (Bl.) Stein in Orchideenbuch 467.  
1892.

*Cypripedium fairieanum* Bl. ; F.B.I. 6 : 173. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

**Paphiopedilum hirsutissimum** (Lindl. ex Hook.) Stein in Orchideenbuch 470. 1892.

*Cypripedium hirsutissimum* Lindl. ex. Hook. ; F.B.I. 6 : 171. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Thailand & Vietnam.

**Paphiopedilum insigne** (Wall. ex Lindl.) Pfitz. in Engler, Bot. Jahrb. 19 : 41. 1894.

*Cypripedium insigne* Wall. ex Lindl. ; F.B.I. 6 : 172. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**\*Paphiopedilum spicerianum** (Reichb. f.) Pfitz. in Engler, Bot. Jahrb. 19 : 41. 1894.

*Cypripedium spicerianum* Reichb. f. ; F.B.I. 6 : 172. 1890.

*Distrib.* : North eastern India ; endemic.

**\*Paphiopedilum venustum** (Wall. ex Sims.) Pfitz. in Engler, Bot. Jahrb. 19 : 41. 1894.

*Cypripedium venustum* Wall. ex Sims. ; F. B. I. 6 : 173. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India ; endemic.

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**++Paphiopedilum charlesworthii** (Rolfe) Pfitz. Morph. Stud. Orch. 40. 1886 (Burma and Mizoram) and **Paph. wardii** Summer. in Gard. Chron. Ser. 3. 92: 446. 1932 (Arunachal Pradesh) have been reported by Pradhan (1976).

\*var. **rubrum** U. C. Pradhan, Ind. Orch. II. 675. 1979.

*Distrib.* : North eastern India ; endemic.

\*var. **teestaensis** U. C. Pradhan, l.c.

*Distrib.* : Eastern Himalayas ; endemic.

**Paphiopedilum villosum** (Lindl.) Stein in Orchideenbuch. 490. 1892.

*Cypripedium villosum* Lindl. ; F.B.I. 6 : 171. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

PAPILIONANTHE Schltr.

\***Papilionanthe subulata** (Koen.) Garay in Bot. Mus. Leaflet. Harv. 23(10) : 369. 1974.

*Aerides cylindricum* Lindl. ; F.B.I. 6 : 4 1890.

*Distrib.* : Peninsular India ; endemic.

**Papilionanthe teres** (Roxb.) Schltr. in Orchis 9 : 78. 1915.

*Vanda teres* (Roxb.) Lindl. ; F.B.I. 6 : 49. 1890.

*Distrib.* : Eastern Himalayas, North eastern India and Andaman & Nicobar islands.

*World Distrib.* : Central Himalayas & Southern Asia.

**Papilionanthe uniflora** (Lindl.) Garay in Bot. Mus. Leaflet. Harv. 23(10) : 370. 1974.

*Aerides longicornu* Hook. f., F.B.I. 6 : 4 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Central Himalayas.

**Papilionanthe vandarum** (Reichb. f.) Garay in Bot. Mus. Leaflet. Harv. 23(10) : 370. 1974.

*Aerides vandarum* Reichb. f. ; F.B.I. 6 : 4 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

PECTEILIS Rafin.

\***Pecteilis gigantea** (J.E.Sm.) Rafin., Fl. Tell. 2 : 38. 1836.

*Habenaria susannae* sensu Hook. f., F.B.I. 6 : 137. 1890. p.p.  
*Distrib.* : Western Himalayas & Peninsular India ; endemic.

**Pecteilis henryii** Schltr., Fedde Repert. Beih. 4 : 45. 1919.  
*Distrib.* North eastern India.  
*World Distrib.* : South East Asia.

**Pecteilis susannae** (L.) Rafin., Fl. Tell. 2 : 38. 1836.  
*Habenaria susannae* (L.) Br. ; F.B.I. 6 : 13 1890. p.p.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia.

**Pecteilis triflora** (D. Don) Tang & Wang in Act. Phytotax. Sin.  
 I : 62. 1951.  
*Habenaria triflora* D. Don ; F.B.I. 6 : 142. 1890.  
*Distrib.* : Western Himalayas.  
*World Distrib.* : India, Central Himalayas & Eastern Asia.

#### PELATANTHERIA Ridl.

**Pelatantheria insectifer** (Reichb. f.) Ridl. in J. Linn. Soc. 32 :  
 37. 1896.  
*Sarcanthus insectifer* Reichb. f. ; F.B.I. 6 : 68. 1890.  
*Distrib.* : Western Himalayas, Eastern & North eastern India.  
*World Distrib.* : Southern Asia.

#### PENNILABIUM J. J. Sm.

**\*Pennilabium proboscideum** Rao & Joseph in Bull. bot. Surv.  
 India 10 : 23 1968.  
*Distrib.* : North eastern India ; endemic.

#### PERISTYLUS Blume

**Peristylus affinis** (D. Don) Seidenf. in Dansk Bot. Ark. 31(3) : 48.  
 1977.  
*Habenaria affinis* D. Don ; F.B.I. 6 : 166. 1890.  
*H. goodyeroides* auct p. p. Hook. f., F.B.I. 161 : 1890.  
*Distrib.* : Subtropical Western Himalayas & North eastern India.  
*World Distrib.* : Central Himalayas & South East Asia.

**Peristylus aristatus** Lindl., Gen. & Sp. Orch. 300. 1835; F.B.I. 6 : 158. 1890.

*Distrib.* : Peninsular & North eastern India.

*World Distrib.* : India, Sri Lanka & Nepal.

**\*Peristylus brachyphyllus** Rich. in Ann. Sci. nat. Ser 2. 15 : 70. t. 2. 1841 ; F.B.I. 6 : 159. 1890.

*Distrib.* : Peninsular India ; endemic.

**Peristylus constrictus** Lindl., Gen. & Sp. Orch. 300. 1835.

*Habenaria constricta* (Lindl.) Hook. f., F.B.I. 6 : 161. 1890.

*Distrib.* : Eastern Himalayas, North eastern, Eastern & Central India.

*World Distrib.* : Central Himalayas & South East Asia.

**Peristylus densus** (Lindl.) Santapau & Kapadia in J. Bombay nat. Hist. Soc. 57 : 128. 1960.

*Habenaria stenostachya* (Lindl. ex Benth.) Benth. ; F.B.I. 6 : 156. 1890.

*H. neglecta* King & Pantl. in J. As. Soc. Bengal 66 : 603. 1897.

*P. xanthochlorus* Blatt. & McCann in J. Bombay nat. Hist. Soc. 35 : 753. 1932.

*Distrib.* : Peninsular & North eastern India.

*World Distrib.* : South East Asia.

**Peristylus elisabethae** (Duthie) Gupta, Fl. Nainital 351. 1968.

*Habenaria elisabethae* Duthie in J. As. Soc. Bengal 71 : 44. 1902.

*Distrib.* : Temperate Western Himalayas.

*World Distrib.* : India, Central Himalayas & Tibet.

**Peristylus fallax** Lindl., Gen. & Sp. Orch. 298. 1835 ; F.B.I. 6 : 129. 1890.

*World Distrib.* : Temperate Himalayas.

**Peristylus goodyeroides** (D. Don) Lindl., Gen. & Sp. Orch. 229. 1835.

*Habenaria goodyeroides* D. Don ; F.B.I. 6 ; 161. 1890. (excl. *H. grandis*).

*World Distrib.* : Widespread from India (except Northwest India) to New Guinea.

**Peristylus gracilis** Bl., Bijdr. 40. 1825.

*Habenaria aristata* Hook. f., F.B.I. 6: 158. 1890. (quoad Khasi plants).

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Peristylus hamiltonianus** Lindl., Gen. & Sp. Orch. 299. 1835.

*Habenaria hamiltoniana* (Lindl.) Hook. f., F.B.I. 6 : 160. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Peristylus lacertiferus** (Lindl.) J. J. Sm. in Bull. Butienz. Ser. 3. 9 : 23. 1927.

*Habenaria lacertifera* (Lindl.) Benth. ; F.B.I. 6 : 163. 1890. (excl. var. *robusta*).

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Peristylus lancifolius** A. Rich. in Ann. Sci. nat. Ser. 2. 15 : 69 t. 2C. 1841.

*Habenaria robustior* Hook. f., F.B.I. 6 : 160. 1890. p.p. (excl. syn.).

*Distrib.* : Peninsular India ; endemic.

\***Peristylus lawii** Wight, Ic. 5(1) : 12. t. 1695. 1852 ; F.B.I. 6 : 162. 1890.

*Distrib.* : Northern, Central, Southern & Eastern India ; endemic.

**Peristylus mannii** (Reichb. f.) Mukerjee in Not. Bot. Gard. Edinburgh 21(3) : 153. 1953.

*Habenaria gracillima* Hook. f., F.B.I. 6 : 163. 1890.

*Distrib.* : Central India, Eastern Himalayas, North eastern India & Andaman Islands.

*World Distrib.* : Southern Asia.

**Peristylus parishii** Reichb. f. in Trans. Linn. Soc. 30 : 139. 1874; F.B.I. 6: 161. 1890.

*Distrib.* : Central India, Eastern Himalayas, North eastern India & Andaman islands.

*World Distrib.* : Southern Asia.

**Peristylus prainii** (Hook. f.) Krzl., Orch. Gen. & Sp. 51 1901.

*Habenaria prainii* Hook. f., F.B.I. 6 : 159. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

**Peristylus richardianus** Wight, Ic. 5(1) t. 1697.: 1852; F.B.I. 6: 156. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Nepal.

**Peristylus secundus** (Lindl.) Rathakrishnan in Ind. For. 98 : 31. 1972. (excl. Some Synonyms).

*Habenaria robustior* sensu Hook. f., F.B.I. 6 : 160. 1890. p.p.

*Distrib.* : Peninsular India.

*World Distrib.* : India, ? Ryu Kyu islands.

**Peristylus spiralis** Rich. in Ann. Sci. nat. Ser. 2. 15: 69. t. 2B. 1841 ; F.B.I. 6 : 159. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**\*Peristylus stocksii** (Hook. f.) Krzl., Gen. & Sp. Orch. 1 : 513. 1898.

*Habenaria stocksii* Hook. f., F.B.I. 6 : 158. 1890.

*Distrib.* : Peninsular India ; endemic.

**Peristylus tipuliferus** (Par. & Reichb. f.) Mukerjee in Not. Bot. Gard. Edinburgh 21 : 158. 1953.

*Habenaria tipulifera* Par. & Reichb. f., & *H. brandisii* Hook. f. ; F.B.I. 6 : 157. & 162. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

PHAIUS Lour. (also see THUNIA)

**Phaius flavus** (Bl.) Lindl., Gen. & Sp. Orch. 128. 1831.

*P. maculatus* Lindl. ; F.B.I. 5 : 817. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : South East and Eastern Asia.

**Phaius luridus** Thw., Enum. Pl. Zeyl. 300. 1864 ; F.B.I. 5 : 817. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Phaius mishmensis** Reichb. f., Bonplandia 5 : 43. 1857 ; F.B.I. 5 : 817. 1890.

*Distrib.* : Tropical Eastern Himalayas.

*World Distrib.* : Southern Asia.

**Phaius nanus** Hook. f., Fl. Brit. India 6 : 192. 1890.

*Distrib.* : Eastern India.

*World Distrib.* : India, Bhutan.

**Phaius tankervilleae** (L'Herit.) Bl. in Mus. Bot. Lygd. 2 : 177. 1856.

*P. wallichii* Lindl. ; F.B.I. 5 : 816. 1890.

*World Distrib.* : Widespread from India to Australia.

**Phaius woodfordii** (Hook.) Merrill in J. Arn. Arb. 24 : 211. 1848.

*Bletia woodfordii* Hook. ; F.B.I. 5 : 817. 1890 P.P.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & Thailand.

PHALAEOPSIS Blume

**Phalaenopsis manni** Reichb. f. in Gard. Chron. 902. 1871 ; F.B.I. 6 : 30. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Phalaenopsis mastersii** King & Pantl. in J. As. Soc. Bengal 66 : 591. 1897.



*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

\***Phalaenopsis mysorensis** Saldanha in Ind. For. 100 : 571. t. 3. 1974.

*Distrib.* : Peninsular India ; endemic.

**Phalaenopsis parishii** Reichb. f. in Gard. Chron. 410. 1865 ; F.B.I. 6 : 31. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

\***Phalaenopsis speciosa** Reichb. f. in Gard. Chron. n. s. 15: 562. 1881 ; F.B.I. 6 : 30. 1890.

*Distrib.* : Andaman islands ; endemic.

var. **tetraspis** (Reichb. f.) Sweet. in Arn. Orch. Soc. Bull. 37: 1092. 1968.

*P. tetraspis* Reichb.f. ; F.B.I. 6 : 30. 1890.

*Distrib.* : Andaman & Nicobar islands.

*World Distrib.* : South East Asia.

#### PHOLIDOTA Lindl.

**Pholidota auriculata** Lindl., Gen. & Sp. Orch. 38. 1830 ; F.B.I. 5: 844. 1890.

*World Distrib.* : Subtropical Himalayas, South East Asia.

\***Pholidota calceata** Reichb. f. in Walp. Ann. 6 : 238. 1861 ; F.B.I. 5 : 846. 1890.

*Distrib.* : North eastern India ; endemic.

**Pholidota convallariae** Hook.f., Fl. Brit. India 5 : 846. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

\*var. **breviscapa** Deori & Joseph in Bull. bot. Surv. India 20 : 159. 1978. (1979).

*Distrib.* : Eastern Himalayas ; endemic.

**Pholidota griffithii** Hook. f., Ic. Pl. t. 1881. 1889 ; F.B.I. 5 : 845. 1890.

*World Distrib.* : Tropical & subtropical Himalayas & South East Asia.

**Pholidota imbricata** (Roxb.) Lindl. in Hook., Fl. Exot. 2. t. 138. 1825 ; F.B.I. 5 : 845. 1890.

*World Distrib.* : India to Pacific.

var. **sessilis** Hook. f., Fl. Brit. India 5 : 84 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Bhutan.

**Pholidota obovata** Hook.f., Fl. Brit. India 5 : 845. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Bhutan.

**Pholidota protracta** Hook.f., Ic. Pl. t. 1877. 1889 ; F.B.I. 5 : 845. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

**Pholidota recurva** Lindl., Gen. & Sp. Orch. 37. 1830 ; F.B.I. 5 : 844. 1890.

*World Distrib.* : Subtropical Himalayas.

**Pholidota rubra** Lindl., Gen. & Sp. Orch. 37. 1830 ; F.B.I. 5 : 84 1890.

*World Distrib.* : Subtropical Himalayas & South East Asia.

#### PHREATIA Lindl.

**Phreatia elegans** Lindl., Gen. & Sp. Orch. 63. 1830 ; F.B.I. 5 : 810. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Phreatia secunda** (Bl.) Lindl., Gen. & Sp. Orch. 64. 1830.

*P. minutiflora* Lindl. ; F.B.I. 5 : 817. 1890.

*Distrib.* : Andaman islands.

*World Distrib.* : South East Asia.

PHYSURUS Rich. (also see ERYTHERODES)

† \***Physurus hirsutus** (Griff.) Lindl. in J. Linn. Soc. 1 : 180. 1857 ;  
F.B.I. 6 : 94. 1890.

*Distrib.* : North eastern India ; endemic.

PLATANThERA Rich.

**Platanthera arcuata** Lindl., Gen. & Sp. Orch. 289. 1835 ; F.B.I.  
6 : 155. 1890.

*World Distrib.* : Temperate Himalayas & Tibet.

**Platanthera bakeriana** (King & Pantl.) Krzl., Gen. & Sp. Orch.  
1 : 632. 1898.

*Habenaria bakeriana* King & Pantl. in J. As. Soc. Bengal 65 : 132.  
1896.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & Eastern Asia.

**Platanthera biermanniana** (King & Pantl.) Krzl., Gen. & Sp.  
Orch. 1 : 362. 1898.

*Habenaria biermanniana* King & Pantl. in J. As. Soc. Bengal 64 :  
343. 1895.

*World Distrib.* : Temperate Himalayas.

**Platanthera clavigera** Lindl., Gen. & Sp. Orch. 289. 1835 ; F.B.I.  
6 : 153. 1890.

*World Distrib.* : Temperate Himalayas.

\***Platanthera dyeriana** (King & Pantl.) U. C. Pradhan, Ind.  
Orch. II : 682. 1979.

*Habenaria dyeriana* King & Pantl. in J. As. Soc. Bengal 65 : 133.  
1896.

*Distrib.* : Eastern Himalayas ; endemic.

**Platanthera exelliana** Soo in Ann. Hist. nat. Mus. Natl. Hung. 26 :  
359. 1929.

*Habenaria oligantha* Hook. f., F.B.I. 6 : 15 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & South East Tibet.

**Platanthera juncea** (King & Pantl.) Krzl., Gen. & Sp. Orch. 942. 1901.

*Habenaria juncea* King & Pantl. in J. As. Soc. Bengal 65: 132. 1896.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

**Platanthera latilabris** Lindl., Gen. & Sp. Orch. 289. 1835 ; F.B.I. 6 : 153. 1890.

*World Distrib.* : Temperate Himalayas, Pakistan & Tibet.

**Platanthera leptocaulon** (Hook.f.) Soo in Ann. Hist. nat. Mus. Natl. Hung. 26 : 360. 1929.

*Habenaria leptocaulon* Hook. f., F.B.I. 6 : 154. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas & South East Tibet.

**Platanthera sikkimensis** (Hook.f.) Krzl., Gen. & Sp. Orch. 1 : 621. 1898.

*Habenaria sikkimensis* Hook. f., F.B.I. 6 : 155. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Central Himalayas.

#### PLEIONE D. Don

**Pleione grandiflora** Rolfe in Orch. Rev. 11 : 291. 1903.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Central Asia.

**Pleione hookeriana** (Lindl.) T. Moore in Wilhams, Orch. Grow. Mand. ed. 6 : 548. 1885.

*Coelogyne hookeriana* Lindl. ; F.B.I. 5 : 842. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas & South East Tibet.

**Pleione humilis** (Sm.) Don, Prodr. Fl. Nepal 37. 1825.

*Coelogyne humilis* (Sm.) Lindl. ; F.B.I. 5 : 840. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas, South East Asia.

**Pleione maculata** (Lindl.) Lindl. & Paxt. in Flower Gard. 2 : 5. t. 39. I. 1851 ; F.B.I. 5 : 841. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Pleione praecox** (Sm.) Don, Prodr. Fl. Nepal 37. 1825 ; F.B.I. 5 : 840. 1890.

*Distrib.* : Temperate Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

#### PLOCOGLOTTIS Blume

**Plocoglottis javanica** Bl., Bijdr. 380. 1825 ; F.B.I. 6 : 22. 1890.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

#### PODOCHILUS Blume

**Podochilus cultratus** Lindl., Gen. & Sp. Orch. 234. 1833 ; F.B.I. 6 : 80. 1890.

*Distrib.* : Tropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas, Southern Asia.

\***Podochilus khasianus** Hook. f., Fl. Brit. India 6 : 81. 1890.

*Distrib.* : Eastern Himalayas & North eastern India ; endemic.

**Podochilus malabaricus** Wight, Ic. 5: t. 1748. fig. 2. 1852 ; F.B.I. 6 : 80. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Podochilus microphyllus** Lindl., Gen. & Sp. Orch. 234. 1835 ; F.B.I. 6 : 81. 1890.

*Distrib.* : Nicobar islands.

*World Distrib.* : South East Asia.

## POGONIA Juss. (see NERVILIA)

## POLYSTACHYA Hook.

**Polystachya flavescens** (Bl.) J. J. Sm., Fl. Buitenz. 6 : 284. f. 218. 1905.

*P. purpurea* Wight ; F.B.I. 6 : 2 1890.

*Distrib.* : Peninsular India, Andaman & Nicobar islands.

*World Distrib.* : South East Asia.

## POMATOCALPA Breda, Kuhl &amp; v. Hass.

\***Pomatocalpa andamanicum** (Hook.f.) J.J. Sm. in Nat. Tijd. Ned. Ind. 72 : 103. 1912.

*Cleisostoma andamanicum* Hook. f., F.B.I. 6 : 71. 1890.

*Distrib.* : Andaman islands ; endemic.

\***Pomatocalpa armigerum** (King & Pantl.) Tang & Wang in Act. Phytotax. Sin. 1(1) : 98. 1951.

*Cleisostoma armigera* King & Pantl. in J. As. Soc. Bengal 65 : 123. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

**Pomatocalpa bambusarum** (King & Pantl.) Garay in Bot. Mus. Leaf. Harv. 23(4) : 190. 1972.

*Cleisostoma bambusarum* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 233. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

\***Pomatocalpa manni** (Reichb. f.) J.J. Sm. in Nat. Tijd. Ned. Ind. 72 : 105. 1912.

*Cleisostoma manni* Reichb. f. ; F.B.I. 6 : 74. 1890.

*Distrib.* : Eastern Himalayas, North eastern India & Peninsular India ; endemic.

**Pomatocalpa wendlandorum** (Reichb. f.) J.J. Sm. in Nat. Tijd. Ned. Ind. 72 : 108. 1912.

*Cleisostoma wendlandorum* Reichb. f. ; F.B.I. 6 : 74. 1890.

*Distrib.* : Eastern Himalayas, North eastern India & Andaman islands.

*World Distrib.* : India, Burma.

PONERORCHIS Reichb. f.

**Ponerorchis chusua** (D. Don) Soo in Acta Bot. Acad. Sci. Hung. 12 : 302. 1966.

*Orchis chusua* D. Don ; F.B.I. 6 : 127. 1890.

*Distrib.* : Alpine Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

PORPAX Lindl.

**Propax elwesii** (Reichb.f.) Rolfe in Orch. Rev. 16 : 8. 1908.

*Eria meriux* sensu Hook.f., F.B.I. 5 : 786. 1890. (quoad Sikkim Plant).

*Distrib.* : Eastern Himalayas & Andaman islands.

*World Distrib.* : South East Asia.

**Propax fibuliformis** (King & Pantl.) King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 114. t. 159. 1898.

*Eria fibuliformis* King & Pantl. in J. As. Soc. Bengal 64 : 336. 1895.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Propax gigantea** Deori in Bull. bot. Surv. India 17: 174. 1975.(1978).

*Distrib.* : North eastern India.

*World Distrib.* : Southern Asia.

**\*Propax jerdoniana** (Wight) Rolfe in Orch. Rev. 16 : 8. 1908.

*E. lichenora* Lindl. ; F.B.I. 5 : 787. 1890.

*Distrib.* : Peninsular India ; endemic.

**\*Propax reticulata** Lindl. in Bot. Reg. 31. Misc. 6 1845.

*E. reticulata* (Lindl.) Reichb. f. ; F.B.I. 5 : 78 1890.

*Distrib.* : Peninsular India ; endemic.

PROTEROCERAS Joseph & Vajravelu

- \***Proteroceras holttumii** Joseph & Vajravelu in J. Ind. bot. Soc.  
53: 189. 1974.  
*Distrib.* : Peninsular India ; endemic.

PTEROCERAS v. Hass. ex Hassk.

- Pteroceras alatum** (Holtt.) Holtt. in Kew Bull. 14 : 269. 1960.  
*Distrib.* : Nicobar islands.  
*World Distrib.* : South East Asia.
- Pteroceras appendiculatum** (Bl.) Holtt. in Kew Bull. 14 : 269.  
1960.  
*Sarcochilus hirtulus* Hook. f., F.B.I. 6 : 39. 1890.  
*Distrib.* : Andaman islands.  
*World Distrib.* : South East Asia.
- Pteroceras berkeleyii** (Reichb. f.) Holtt. in Kew Bull. 14 : 269.  
1960.  
*Sarcochilus berkeleyii* Reichb. f. ; F.B.I. 6 : 37. 1890.  
*Distrib.* : Nicobar islands.  
*World Distrib.* : South East Asia.
- \***Pteroceras muriculatum** (Reichb.f.) Hunt in Kew Bull. 24(1) :  
69. 1970.  
*Sarcochilus muriculatus* Reichb. f. ; F.B.I. 6 : 3 1890.  
*Distrib.* : Andaman islands ; endemic.
- Pteroceras suaveolens** (Roxb.) Holtt. in Kew Bull. 14 : 270. 1960.  
*Sarcochilus suaveolens* (Roxb.) Hook.f., F.B.I. 6 : 33. 1890.  
*Distrib.* : Eastern Himalayas.  
*World Distrib* : South East Asia.

RENANTHERA Lour.

- Renanthera imschootiana** Rolfe in Kew Bull. 200. 1891.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia.



RHYNCHOSTYLIS Blume (also see SCHOENORCHIS)

**Rhynchostylis retusa** (L.) Bl., Bijdr. 7 : 266. t. 49. 1825 ; F.B.I. 6 : 32. 1890.

*World Distrib.* : Widespread from India (except Northwest India) to Philippines.

RISLEYA King & Pantl.

\***Risleya atropurpurea** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 247. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

ROBIQUETIA Gaud.

**Robiquetia spathulata** (Bl.) J.J. Sm. in Nat. Tijd. Ned. Ind. 72 : 114. 1912.

*Cleisostoma spicatum* Lindl. ; F.B.I. 6 : 72. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

**Robiquetia succisa** (Lindl.) Seidenf. & Garay in Bot. Tidssk: 67 : 119. 1972.

*Saccolabium buccosum* Reichb. f. ; F.B.I. 6 : 58. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

SACCOLABIOPSIS J. J. Sm.

**Saccolabiopsis pusilla** (Lindl.) Seidenf. & Graray in Bot. Tidssk. 67 : 11. 1972.

*Saccolabium pumilio* Reichb. f. ; F.B.I. 6 : 56. 1890.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : South East Asia.

SACCOLABIUM Blume (also see ACAMPE, ASCOCENTRUM,  
CLEISOCENTRON, GASTROCHILUS, LOXOMA, MALLEOLA,  
ROBIQUETIA, SACCOLABIOPSIS, SCHOENORCHIS,  
SMITINANDIA and UNCIFERA)

**Saccolabium congestum** Hook.f., Fl. Brit. India 6 : 63. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Saccolabium curvifolium** Lindl., Gen. & Sp. Orch. 222. 1833 ;  
F.B.I. 6 : 65. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

SARCANTHUS Lindl. (see CLEISOSTOMA, PELATANThERIA and  
STEREOCHILUS)

SARCOCHILUS R. Br. (see BIERMANNIA, CHILOSCHISTA,  
MICROPERA, PTEROCERAS, TAENIOPHYLLUM  
and THRIXSPERMUM)

SATYRIUM Sw.

**Satyrium nepalense** D. Don, Prodr. Fl. Nepal 26. 1825 ; F.B.I.  
6 : 168. 1890.

*Distrib.* : Temperate Western & Eastern Himalayas, North eastern  
& Peninsular India.

*World Distrib.* : Pakistan, Central Himalayas & South East Asia.

SCHOENORCHIS Blume

**Schoenorchis filiformis** (Wight) Schltr. Fedde Repert. 1 : 986.  
1913.

*Saccolabium filiforme* (Wight) Lindl. ; F.B.I. 6 : 5 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Schoenorchis gemmata** (Lindl.) Sm. in Nat. Tijd. Ned. Ind.  
72 : 100. 1912.

*Saccolabium gemmatum* Lindl. ; F.B.I. 6 : 56. 1890.

*Distrib.* : Subtropical Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**\*Schoenorchis jerdoniana** (Wight) Garay in Bot. Mus. Leaflet.  
Harv. 23(4) : 202. 1972.

*Saccolabium jerdonianum* (Wight) Reichb. f. ; F.B.I. 6 : 59. 1890.  
*Distrib.* : Peninsular India ; endemic.

\***Schoenorchis latifolia** (Fischer) Saldanha in J. Bombay nat. Hist. Soc. 70 : 415. 1974.  
*Rhynchostylis latifolia* Fischer in Kew Bull. 358. 1927.  
*Distrib.* : Peninsular India ; endemic.

\***Schoenorchis manipurensis** U.C. Pradhan, Ind. Orch. II. 719. 1979.  
*Distrib.* : North eastern India ; endemic.

SIRHOOKERA O. Ktze.

**Sirhookera lanceolata** (Wight) Kuntze, Rev. Gen. Pl. 861. 1891.  
*Josephia lanceolata* Wight ; F.B.I. 5 : 823. 1890.  
*Distrib.* : Paninsular India.  
*World Distrib.* : India, Sri Lanka.

\***Sirhookera latifolia** (Wight) Kuntze, Rev. Gen. Pl. 681. 1891.  
*Josephia latifolia* Wight ; F.B.I. 5 : 823. 1890.  
*Distrib.* : Peninsular India ; endemic.

SMITHSONIA C. J. Saldanha (see LOXOMA)

SMITINANDIA Holtt.

**Smitinandia micrantha** (Lindl.) Holttum in Gard. Bull. Singapore 25 : 106. 1969.  
*Saccolabium micranthum* Lindl. ; F.B.I. 6 : 59. 1890.  
*Distrib.* : Western & Eastern Himalayas, North eastern India.  
*World Distrib.* : Central Himalayas & South East Asia.

SPATHOGLOTTIS Blume

**Spathoglottis ixioides** (Don) Lindl., Gen. & Sp. Orch. 120. 1831 ; F.B.I. 5 : 814. 1890.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India, Central Himalayas.

† **Spathoglottis malabarica** (Reichb.f.) U. C. Pradhan, Ind. Orch. II : 702. 1979.

*Ipsea malabarica* (Reichb.f.) Hook.f., F.B.I. 5 : 812. 1890.

*Distrib.* : Peninsular India ; endemic.

**Spathoglottis plicata** Bl., Bijdr. 401. t. 46. 1825 ; F.B.I. 5 : 813. 1890.

*Distrib.* : Andaman & Nicobar islands.

*World Distrib.* : South East Asia.

**Spathoglottis pubescens** Lindl., Gen. & Sp. Orch. 120. 1831 ; F.B.I. 5 : 814. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

\*var. **parviflora** (Reichb.f.) Hook. f., F.B.I. 5 : 814. 1890.

*Distrib.* : North eastern India ; endemic.

#### SPIRANTHES Rich.

**Spiranthes autumnalis** Rich. in Mem. Mus. Par. 4 : 59. 1818 ; F.B.I. 6 : 103. 1890.

*Distrib.* : Western Himalayas.

*World Distrib.* : India, Northern Asia & Europe.

**Spiranthes sinensis** (Pers.) Ames, Orch. 2 : 53. 1908.

*S. australis* Lindl. ; F.B.I. 6 : 102. 1890.

*Distrib.* : Throughout India.

*World Distrib.* : Widespread from Asia to Japan & Southeast to Australia, New Zealand & Tasmania.

\*var. **wightiana** Lindl., Gen. & Sp. Orch. 465. 1840 ; F.B.I., l.c.

*Distrib.* : Peninsular India ; endemic.

#### STEREOCHILUS Lindl.

**Stereochilus hirtus** Lindl. in J. Linn. Soc. 3 : 58. 1859.

*Sarcanthus hirtus* (Lindl.) Benth. ; F.B.I. 6 : 35. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Southern Asia.

\***Stereochilus wattii** King & Pantl. in J. As. Soc. Bengal 66 : 595.  
1897.

*Distrib.* : North eastern India ; endemic.

SUNIPIA Buch.-Ham. ex. Lindl.

**Sunipia andersonii** (King & Pantl.) Hunt in Kew Bull. 26 : 183.  
1971.

*Ione andersonii* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta  
8 : 159. t. 217. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan.

**Sunipia bicolor** Lindl., Gen. & Sp. Orch. 179. 1833.

*Bulbophyllum bicolor* (Lindl.) Hook.f., F.B.I. 5 : 770. 1890.

*World Distrib.* : Temperate Himalayas.

**Sunipia candida** (Lindl.) Hunt. in Kew Bull. 26 : 183. 1971.

*Bulbophyllum candidum* (Lindl.) Hook.f., F.B.I. 5 : 770. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : India, Bhutan.

**Sunipia cirrhata** (Lindl.) Hunt in Kew Bull. 26 : 184. 1971.

*Bulbophyllum cirrhatum* (Lindl.) Hook.f., F.B.I. 5 : 769. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

†\***Sunipia fusco-purpurea** (Lindl.) Hunt in Kew Bull. 26 : 184.  
1971.

*Bulbophyllum mishmeense* Hook.f., F.B.I. 5 : 769. 1890.

*Distrib.* : Eastern Himalayas ; endemic.

\***Sunipia intermedia** (King & Pantl.) Hunt in Kew Bull. 26 :  
184. 1971.

*Ione intermedia* King & Pantl. in J. As. Soc. Bengal 65 : 120. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

\***Sunipia jainii** Hynniewta & Malhotra in J. Ind. bot. Soc. 57 : 31.  
1978.

*Distrib.* : North eastern India ; endemic.

- Sunipia paleaceae** (Lindl.) Hunt in Kew Bull. 26 : 184. 1971.  
*Bulbophyllum paleaceum* (Lindl.) Hook.f., F.B.I. 5 : 769. 1890.  
*World Distrib.* : Temperate Himalayas.
- Sunipia racemosa** (Smith) Tang & Wang in Act. Phytotax. Sin. 1(1) : 90. 1951.  
*S. scariosa* Lindl. ; F.B.I. 5 : 772. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Central Himalayas & South East Asia.
- \***Sunipia virens** (Lindl.) Hunt in Kew Bull. 26 : 185. 1971.  
*Bulbophyllum virens* (Lindl.) Hook.f., F.B.I. 5 : 770. 1890.  
*Distrib.* : Eastern Himalayas ; endemic.

#### TAENIOPHYLLUM Blume

- \***Taeniophyllum andamanicum** Balak. & Bhargava in Bull. bot. Surv. India 20 : 154. 1978. (1979).  
*Distrib.* : Andaman islands ; endemic.
- \***Taeniophyllum crepidiforme** (King & Pantl.) King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 245. 1898.  
*Sarcochilus crepidiformis* King & Pantl. in J. As. Soc. Bengal 64 : 340. 1895.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Taeniophyllum khasianum** Joseph & Yog. in J. Ind. bot. Soc. 46(1) : 190. 1967.  
*Distrib.* : North eastern India ; endemic.
- \***Taeniophyllum retro-spiculatum** (King & Pantl.) King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 24 1898.  
*Sarcochilus retro-spiculatus* King & Pantl. in J. As. Soc. Bengal 64 : 340. 1895.  
*Distrib.* : Eastern Himalayas ; endemic.
- \***Taeniophyllum scaberulum** Hook.f., Fl. Brit. India 6 : 701. 1890.  
*Distrib.* : Peninsular India ; endemic.

## TAINIA Blume

- Tainia bicornis** (Lindl.) Reichb.f., Bonplandia 5 : 54. 1857.  
*T. bicornis* (Lindl.) Benth. ex Hook.f., F.B.I. 5 : 820. 1890.  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka.
- \***Tainia hastata** (Lindl.) Hook. f., Fl. Brit. India 5 : 821. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India ; endemic.
- \***Tainia hookeriana** King & Pantl. in J. As. Soc. Bengal 64 : 336. 1895.  
*Distrib.* : Eastern Himalayas ; endemic.
- † \***Tainia khasiana** Hook.f., Fl. Brit. India 5 : 821. 1890.  
*Distrib.* : North eastern India ; endemic.
- Tainia latifolia** Benth. ex Hook.f., Fl. Brit. India 5 : 820. 1890.  
*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Bangladesh & Burma.
- Tainia minor** Hook.f., Fl. Brit. India 5 : 821. 1890.  
*Distrib.* : Eastern Himalayas.  
*World Distrib.* : India, Bhutan.
- Tainia viridifusca** Benth. in Gen. Pl. 3 : 515. 1883 ; F.B.I. 5 : 820. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : Southern Asia.

## TAINIOPSIS Schltr.

- Tainiopsis barbata** (Lindl.) Schltr. in Orchis. 9 : 10. 1915.  
*Eria barbata* (Lindl.) Reichb.f. ; F.B.I. 5 : 803. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : Southern Asia.

## THELASIS Blume

- \***Thelasis bifolia** Hook.f., Fl. Brit. India 6 : 86. 1890.  
*Distrib.* : North eastern India ; endemic.

\***Thelasis khasiana** Hook.f., Fl. Brit. India 6 : 87. 1890.

*Distrib.* : North eastern India ; endemic.

**Thelasis longifolia** Hook.f., Fl. Brit. India 6 : 87. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Bhutan.

**Thelasis pygmaea** (Griff.) Lindl. in J. Linn. Soc. 3 : 63. 1859 p.p.;  
F.B.I. 6 : 86. 1890.

*Distrib.* : Eastern Himalayas & Nicobar islands.

*World Distrib.* : Central Himalayas & Southern Asia.

THRIXSPERMUM LOUR.

**Thrixspermum arachnitis** (Bl.) Reichb.f. in Xen. Orch. 2 : 121.  
1865.

*Sarcochilus arachnitis* Reichb.f.; F.B.I. 6 : 41. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Thrixspermum hystrix** Reichb.f. in Trans. Linn. Soc. 30 : 145.  
1874 ; F.B.I. 6 : 38. 1890.

*Distrib.* : North eastern India & Andaman & Nicobar islands.

*World Distrib.* : South East Asia.

\***Thrixspermum muscaeflorum** Rao & Joseph in Bull. bot. Surv.  
India 11 : 204. 1969.

*Distrib.* : North eastern India ; endemic.

\*var. **nilagiricum** Joseph & Vajravelu in Ind. For. 107 : 648. fig.  
1-5. 1981.

*Distrib.* : Peninsular India ; endemic.

\***Thrixspermum pygmaeum** (King & Pantl.) Holttum in Kew  
Bull. 14 : 275. 1960.

*Sarcochilus pygmaeus* King & Pantl. in Ann. Roy. Bot. Gard. Calcutta  
8 : 207. t. 277. 1898.

*Distrib.* : Subtropical Eastern Himalayas; endemic.



THUNIA Reichb.f.

- Thunia alba** (Lindl.) Reichb.f. in Bot. Zeit. 10 : 764. 1852.  
*Phaius albus* Lindl. ; F.B.I. 5 : 818. 1890. p.p.  
*Distrib.* : Tropical Western & Eastern Himalayas, North eastern India & Andaman islands.  
*World Distrib.* : Central Himalayas & South East Asia.
- Thunia venosa** Rolfe in Orch. Rev. 13 : 206. 1905.  
*Phaius albus* sensu Hook. f., F.B.I. 5 : 818. 1890. p.p.  
*Distrib.* : Tropical Western & Eastern Himalayas, Eastern & Peninsular India, Andaman islands.  
*World Distrib.* : India, Burma.

TIPULARIA Nutt.

- Tipularia josephi** Reichb. f. ex Lindl. in J. Linn. Soc. 1 : 174. 1857 ; F.B.I. 5 : 708. 1890.  
*World Distrib.* : Temperate Himalayas & South East Tibet.

TRIAS Lindl.

- Trias oblonga** Lindl., Gen. & Sp. Orch. 60. 1830 ; F.B.I. 5 : 780. 1890.  
*Distrib.* : Eastern & North eastern India.  
*World Distrib.* : Southern Asia.
- \***Trias pusilla** Joseph & Deka in J. Ind. bot. Soc. 31 : 378. fig. 1-6. 1972.  
*Distrib.* : North eastern India ; endemic.
- \***Trias stocksii** Benth. ex Hook. f., Fl. Brit. India 5 : 781. 1890.  
*Distrib.* : Peninsular India ; endemic.

TRICHOGLOTTIS Blume

- Trichoglottis cirrhifera** Teysm. & Binn. in Nat. Tijd. Ned. Ind. 493. 1853.  
*Distrib.* : Nicobar islands.  
*World Distrib.* : South East Asia.

†\***Trichoglottis quadricornuta** Kurz in J. As. Soc. Bengal 45 : 156. t. 13. 1876 ; F.B.I. 6 : 43. 1890.  
*Distrib.* : Nicobar islands ; endemic.

**Trichoglottis orchidea** (Koenig) Garay in Bot. Mus. Leaflet. Harv. 23 (4) : 209. 1972.  
*Epidendrum orchideum* Koenig ; F.B.I. 6 : 198. 1890.  
*Distrib.* : Peninsular India & Nicobar islands.  
*World Distrib.* : South East Asia.

**Trichoglottis tenera** (Lindl.) Schltr. in Bull. Herb. Boiss. Ser. 2. 6 : 471. 1906.  
*Cleisostoma tenarum* (Lindl.) Hook. f., F.B.I. 6 : 73. 1890.  
*Distrib.* : Peninsular India  
*World Distrib.* : India, Sri Lanka.

TRICHOSMA Lindl. (see ERIA)

TRICHOTOSIA Blume

**Trichotosia dasyphylla** (Par. & Reichb. f.) Krzl. in Pflanzen. 50 : 138. 1911.  
*Eria dasyphylla* Par. & Reichb. f. ; F.B.I. 5 : 808. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : Central Himalayas & South East Asia.

**Trichotosia pulvinata** (Lindl.) Krzl. in Pflanzen. 50 : 138. 1911.  
*Eria pulvinata* Lindl. & *E. rufinula* (Lindl.) Reichb. f ; F.B.I. 5 : 807. 1890.  
*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.

TROPIDIA Lindl.

**Tropidia angulosa** (Lindl.) Bl. in Coll. Orch. Arch. Ind. 122: 1858 ; F.B.I. 6 : 92. 1890.  
*T. bellii* Blatt. & McCann. in J. Bombay nat. Hist. Soc. 35 : 736. 1932.

*Distrib.* : Eastern Himalayas, North eastern & Peninsular India.  
*World Distrib.* : South East Asia.

**Tropidia curculigoides** Lindl., Gen. & Sp. Orch. 497. 1840 ;  
 F.B.I. 6 : 93.1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : South East Asia.

UNCIFERA Lindl.

**Uncifera acuminata** Lindl. in J. Linn. Soc. 3 : 40. 1859 ; F.B.I.  
 6 : 65. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Central Himalayas.

\***Uncifera lancifolia** (King & Pantl.) Schltr. in Orch. 583. 1914.  
*Saccolabium lancifolium* King & Pantl. in J. As. Soc. Bengal 65 :  
 122. 1896.  
*Distrib.* : Eastern Himalayas ; endemic.

**Uncifera obtusifolia** Lindl. in J. Linn. Soc. 3 : 40. 1859 ; F.B.I.  
 6 : 65. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Central Himalayas.

VANDA R. Br. (also see PAPILIONANTHE)

**Vanda alpina** Lindl., Fol. Orch. 10. 1853 ; F.B.I. 6 : 43. 1890.  
*Distrib.* : Subtropical Western & Eastern Himalayas & North eastern  
 India.  
*World Distrib.* : India, Central Himalayas.

**Vanda bicolor** Griff., Not. Pl. 3 : 354. 1851 ; F.B.I. 6 : 52. 1890.  
*Distrib.* : Tropical Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Bhutan.

**Vanda coerulea** Griff. ex Lindl. in Bot. Reg. t. 30. 1847 ; F.B.I.  
 6 : 51. 1890.  
*Distrib.* : Eastern Himalayas & North eastern India.  
*World Distrib.* : India, Burma & Thailand.

**Vanda cristata** Lindl., Gen. & Sp. Orch. 216. 1853 ; F.B.I. 6 : 53. 1890.

*Distrib.* : Tropical Western & Eastern Himalayas, North eastern India.

*World Distrib.* : India, Central Himalayas, Bangladesh & Tibet.

\***Vanda pumila** Hook. f., Fl. Brit. India 6 : 53. 1890.

*Distrib.* : Subtropical Eastern Himalayas ; endemic.

**Vanda spathulata** (L.) Spreng, Syst. Veg. 3 : 719. 1826 ; F.B.I. 6 : 50. 1890.

*Distrib.* : Peninsular India.

*World Distrib.* : India, Sri Lanka.

**Vanda stangeana** Reichb.f. in Bot. Zeit. 14 : 351. 1858 ; F.B.I. 6 : 54. 1890.

*Distrib.* : North eastern India.

*World Distrib.* : South East Asia.

**Vanda tessellata** (Roxb.) Hook. ex G. Don in Lond. Hort. Brit. 372. 1830.

*V. roxburghii* R. Br. ; F.B.I. 6 : 52. 1890.

*Distrib.* : Throughout India.

*World Distrib.* : Southern Asia.

**Vanda testacea** (Lindl.) Reichb.f. in Gard. Chron. 2 : 166. 1877.

*V. parviflora* Lindl. ; F.B.I. 6 : 50. 1890.

*Distrib.* : Throughout India (except Northwest India).

*World Distrib.* : India, Nepal, Burma & Sri Lanka.

\***Vanda wightii** Reichb. f. in Walp. Ann. 6 : 932. 1861 ; F.B.I. 6 : 54. 1890.

*Distrib.* : Peninsular India ; endemic.

#### VANDOPSIS Pfitz.

**Vandopsis undulata** (Lindl.) J.J. Sm. in Nat. Tijd. Ned. Ind. 72 : 77. 1912.

*Stauroopsis undulatus* Benth. ex Hook. f., F.B.I. 6 : 27. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : India, Central Himalayas.

## VANILLA Mill.

- \*Vanilla andamanica** Rolfe in Kew Bull. 337. 1918.  
*Distrib.* : Andaman & Nicobar islands ; endemic.
- Vanilla pilifera** Holttum in Gard. Bull. Singapore 13 (2) : 251. 1951.  
*Distrib.* : North eastern India.  
*World Distrib.* : Southern Asia.
- Vanilla walkeriae** Wight, Ic. 3(3) : 12. t. 932. 1845; F.B.I. 6 : 90. 1899.  
*Distrib.* : Peninsular India.  
*World Distrib.* : India, Sri Lanka.
- \*Vanilla wightiana** Lindl., Gen. & Sp. Orch. 436. 1840 ; F.B.I. 6 : 90. 1890.  
*Distrib.* : Peninsular India ; endemic.

## VRYDAGZYNEA Blume

- Vrydagzynea albida** (Bl.) Bl. in Coll. Arch. Ind. 75. t. 19. fig. 2. 1-7. 1858 ; F.B.I. 6 : 97. 1890.  
*V. viridiflora* Hook.f., l.c. 6 : 96. 1890.  
*Distrib.* : North eastern India & Nicobar islands.  
*World Distrib.* : South East Asia.

## YOANIA Maxim.

- Yuania japonica** Maxim. in Bull. Acad. St. Petersb. 18: 68. 1873; F.B.I. 6 : 123. 1890.  
*Distrib.* : North eastern India.  
*World Distrib.* : South East Asia & Far East.
- \*Yuania prainii** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 175. 1898.  
*Distrib.* : Eastern Himalayas ; endemic.

## ZEUXINE Lindl. (also see ANOECTOCHILUS)

- Zeuxine affinis** (Lindl.) Benth. ex Hook.f., Fl. Brit. India 6 : 108. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : South East Asia.

**Zeuxine flava** (Wall. ex Lindl.) Benth. ex Hook.f., Fl. Brit. India 6 : 108. 1890.

*Distrib.* : Western & Eastern Himalayas, North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Zeuxine glandulosa** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 288, t. 384. 1898.

*Distrib.* : Eastern Himalayas.

*World Distrib.* : India, Bhutan & Thailand.

**Zeuxine goodyeroides** Lindl., Gen. & Sp. Orch. 486. 1890 ; F.B.I. 6 : 107. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & Southern Asia.

**Zeuxine longilabris** (Lindl.) Benth. ex Hook.f., Fl. Brit. India 6 : 107. 1890.

*Distrib.* : North eastern & Peninsular India.

*World Distrib.* : Central Himalayas & South East Asia.

**Zeuxine nervosa** (Wall. ex Lindl.) Benth. ex Clarke in J. Linn. Soc. 25 : 73. 1889 ; F.B.I. 6 : 108. 1890.

*Distrib.* : Eastern Himalayas & North eastern India.

*World Distrib.* : Central Himalayas & South East Asia.

**\*Zeuxine pulchra** King & Pantl. in J. As. Soc. Bengal 65 : 127. 1896.

*Distrib.* : Eastern Himalayas ; endemic.

**\*Zeuxine reflexa** King & Pantl. in Ann. Roy. Bot. Gard. Calcutta 8 : 291. 1898.

*Distrib.* : Eastern Himalayas ; endemic.

**Zeuxine strateumatica** (L.) Schltr. in Engler, Bot. Jahrb. 45: 394. 1911.

*Z. sulcata* (Roxb.) Lindl. ; F.B.I. 6 : 106. 1890.

*World Distrib.* : Widespread from Afghanistan to New Guinea.

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