FLOWERING PLANTS OF INDIA

DICOTYLEDONS

Volume I

(Acanthaceae - Avicenniaceae)

S. Karthikeyan, M. Sanjappa & S. Moorthy

FLORA OF INDIA
SERIES 4

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Photographs by
S.R. Yadav & N. Sasidharan

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FLOWERING PLANTS OF INDIA

D I C O T Y L E D O N S Volume I

(Acanthaceae Avicenniaceae)

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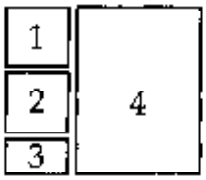
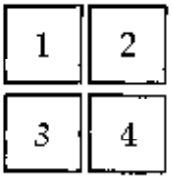


1. Andrographis neesiana Wight, 2. *Pinda concanensis* (Dalzell) P. K. Mukh. & Constance
3. *Alangium salviifolium* (L.) Wangerin subsp. *salviifolium* , 4. *Ceropegia vincaefolia* Hook.;

Back Cover



1. *Hoya lanceolata* Wall. ex D. Don, 2. *Uvaria narum* (Dunal) Blume
3. *Senecio laetus* Edgew, 4. *Celosia argentea* L

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INTRODUCTION

It is felt that a work where one can find the updated names of all the flowering plants of India with their synonyms relevant to various regional floras is an immediate requirement. J.D. Hooker and his collaborators published *Flora of British India* between 1872 and 1897. This publication stimulated intense botanical exploration and floristic research in India, resulting in the publication of a number of provincial and regional floras.

In the *Flora of British India*, J.D. Hooker and his co-workers have dealt with 171 families, 2,325 genera, 14,312 species, 25 subspecies, 2,302 varieties, 11 subvarieties, and 9 formae, covering the areas which were within the jurisdiction of the then British Indian Empire, viz., the present day India, Pakistan, Afghanistan, Nepal, Tibet, Bangladesh, Myanmar (Burma), Sri Lanka (Ceylon), and Malayan Peninsula – Penang, Perak, Singapore, etc. Even some species collected from East Indies have been included. It has been ascertained that from the present political boundaries of the Indian Republic, 170 families, 2,073 genera, 10,200 species, 17 subspecies, 1,363 varieties, 4 subvarieties and 1 forma of flowering plants only have been described in this work (Karthikeyan in Tandon & Prithipalsingh (Eds.), Biodiversity, Taxonomy and Ecology,1999).

In the ensuing 136 years, enormous changes have taken place in the taxonomy and nomenclature of Indian flowering plants. The appearance of *Flora of British India* has given a fillip to the publication of provincial floras. It greatly helped the floristic research pursued by various illustrious botanists of the day such as Cooke, Collett, Duthie, Fyson, Gamble, Haines, Kanjilal, Osmaston, Parkinson, Partridge, Prain, Talbot, etc. this list is only representative and not a complete one of great botanists of those days. In addition to the provincial floras so many local floras have also appeared which shed more light on the plants of India, thus improving the knowledge gained through the *Flora of British India*; many species were recorded in these works from Indian territories which were earlier reported from regions outside India. The intensive plant explorations in various parts of the country whose floristic wealth was not known earlier, and the taxonomic works, both monographic and revisionary studies based on Indian plants - in India as well as abroad - resulted in a better understanding of our plants; many new species were described in addition to recording new ones to the country.

To know any basic information about the flowering plants of India, even today we have to refer to Hook. f., *Flora of British India* as it still remains the only collective work for the whole of India and will remain so till a modern flora takes its place.

The reorganisation of the Botanical Survey of India in 1954 and revived interest in taxonomic research in some centres in India also led to publication of many more local, district and state floras in recent times. Further, the results of taxonomic, monographic and revisionary studies in India and elsewhere resulted in better understanding of many of our plants with resultant changes in their circumscription, position and nomenclature. Many new taxa have been described in addition to recording many more from present geographical limits of the country. Therefore, in the absence of such a work, it will be impossible to correlate all the scattered information accumulated over more than a century.

Scheme of the work

With the advancement of our knowledge in last one hundred years and more there has been profound changes and improvement, in generic and familial concept of some groups of flowering plants. As a result those genera which have been included under 171 families in Flora of British India are placed under 203 families in this work. Since the present work is expected to serve as companion volumes to Flora of British India, the families have been arranged in alphabetical order but delimited / circumscribed following Cronquist (*An integrated system of classification of flowering plants* (1981) and Mabberley (*Plant-Book*, 2nd ed. reprinted with corrections, 1998).

This is the first volume of our work on the Dicotyledons of India. The families that have been included here are, Acanthaceae, Aceraceae, Actinidiaceae, Adoxaceae, Aizoaceae, Alangiaceae, Amaranthaceae, Anacardiaceae, Ancistrocladaceae, Annonaceae, Apiaceae (Umbelliferae), Apocynaceae, Aquifoliaceae, Araliaceae, Aristolochiaceae, Asclepiadaceae, Asteraceae (Compositae) and Avicenniaceae. The subsequent volumes will follow in due course.

The families, their genera, species, and other subspecific taxa have been arranged in an alphabetical order for the sake of convenience. The scientific name of the species with authorship and literature reference is often followed by a work from which the name has been taken so that the user can look it up for further reference. The basionyms and synonyms relevant to the *Flora of British India* and other Indian floras wherever necessary have been cited. This will help the user of any region of India to connect the provincial flora (where the person works) to this work. The general distribution of the particular species has been provided. Taxonomic or nomenclatural notes of relevant interest has been given wherever it was found necessary.

When more than two authors are involved the general pattern is to provide the senior author's name followed by 'et al'. The same system has been followed in this work too; however, in the first instance, all the authors have been indicated and subsequently if the same work is cited then the usual method has been followed.

An important and unique feature of this work is that the names of authors, titles and periodicals have been *standardised;* for standardising the author names we have followed R. K. Brummitt & C. E. Powell (Eds.), *Authors of plant names*, 1992; to standardise the names of titles, F. A. Stafleu & R. S. Cowan's *Taxonomic literature*, second ed., 1976 – 1988 and supplements have been followed – wherever the required abbreviation is not available in that work we have coined one following the pattern set by them; and for abbreviation of periodicals G.H.M. Lawrence et al's *B-P-H* (*Botanico – Periodicum – Huntianum*, Hunt Botanical Library, Pittsburgh) has been followed - in occasional cases where the standard format was not available in this work we have used the format followed by *Index kewensis* or we have just retained the abbreviation that was compiled from the source. The process of standardisation helped to eliminate many errors.

In addition to referring literature, we referred to websites of International Plant Names Index, Tropicos and Google to check the bibiliographic citations whenever a need for clarification arose.

A departure has been made while abbreviating author/s names to Brummitt & Powell (op. cit.). In this work abbreviations have been provided for *all* the publishing authors- i.e., author names have been abbreviated not only for those who publish new taxa but also for the authors who publish the taxonomy or nomenclatural note on any plant.

While on the subject of standardisation of author names another point has also to be presented. Brummitt & Powell (op. cit.) - p.11, item 11 on the topic *Different names for the same person* – have suggested that different standard forms may be used for the same person. A case in Indian context is Debika Das (maiden name) who published both under her maiden name and marital name– Debika Mitra in the family Annonaceae; standard abbreviation for Debika Das has been indicated by Brummitt & Powell as 'D. Das'; under the 'surname' Mitra, she cannot be provided the abbreviation 'D. Mitra'- as the abbreviation is already occupied (for Debabrata Mitra); so her name has to be indicated as Debika Mitra; even then, a person can mistake D. Das and Debika Mitra for two *different* authors; so we suggest that at such rare occasions, both maiden and marital names should be combined by *née;* so we have abbreviated Debika Mitra in her (post-marital publications) as Debika Mitra *née* D. Das. This point we had brought to the notice of Dr. Brummitt through Dr. P. Lakshminarasimhan, erstwhile Liaison Officer of Botanical Survey of India at Kew.

Analysis

As seen earlier, the starting point of this work is J.D. Hooker's *Flora of British India*. A table has been provided to show the status of the families as in that work:

Families	Genera			Species			Varieties		
	F	I	O	F	I	O	F	I	O
Acanthaceae	49	44	5	528	352	176	127	84	43
Aceraceae (Sapindaceae of FBI p.p.)	1	1	—	13	12	1	2	2	—
Actinidiaceae (Ternstroemiaceae of FBI p.p.)	2	2	—	10	7	3	—	—	—
Adoxaceae (Caprifoliaceae of FBI p.p.)	1	1	—	—	—	—	1	1	—
Aizoaceae(Ficoideae of FBI p.p.)	3	3	—	7	6	1	—	—	—
Alangiaceae(Cornaceae of FBI p.p.)	2	2	—	6	3	3	2	1	1
Amaranthaceae	17	17	—	48	43	5	15	11	4
Anacardiaceae	23	19*	4	114	40**	74	9	9	—
Ancistrocladaceae (Dipterocarpaceae of FBI p.p.)	1	1	—	7	2	5	—	—	—
Annonaceae	26	18	8	192	64	128	11	9	2
Apiaceae	39	38	1	158	145	13	34	31	3
Apocynaceae	40	31	9	141	64	77	8	8	—
Aquifoliaceae(Ilicineae of FBI)	1	1	—	24	17	7	2	1	1
Araliaceae	19	17+	2	54	46	8	18	13	5
Aristolochiaceae	4	3	1	16	10	6	4	2	2
Asclepiadaceae	55	46	9	249	187	62	23	14	9
Asteraceae	129	122	7	618	542	76	105	100	5
Avicenniaceae (Verbenaceae of FBI p.p.)	1	1	—	1	1	—	1	—	1
Total	**413**	**367**	**46**	**2186**	**1541**	**645**	**362**	**286**	**76**

* 1 genus- Indian – excluded – see p. xi

** 1 species – Indian – excluded - see p. xi

\+ The genus *Helwingia* now belongs to Cornaceae.

F = Flora of British India; I = India; O = Outside India

Acanthaceae

This family was treated by C. B. Clarke (Hook.f.'s Fl. Brit. India 4: 387 – 558. 1884 - 1885).

Some remarkable taxonomic and nomenclatural changes which have taken place since 1884 are enumerated below:

1. Genera which were treated as independent have been merged later with other genera such as *Adhatoda* with **Justicia**, *Cardanthera* with **Hygrophila.**

2. New genera like *Clarkeasia* and *Cyanrospermum* were created by later authors based on already existing species.

3. A few genera have undergone nomenclatural changes, such as: *Calophanes* = **Dyschoriste**, *Daedalacanthus* = **Eranthemum** — while *Eranthemum* sensu Fl. Brit. India is now treated under *Pseuderanthemum*; *Diolacanthus* = **Phlogacanthus**, *Ebermaiera* = **Staurogyne**, and *Haplanthus* – **Haplanthodes.**

4. Due to varying taxonomic concepts some genera of Fl. Brit. India have been split and species of one genus have been distributed under more than one genus. For example, species of *Asystasia* have been distributed under *Asystasia* and *Asystasiella*; species of *Dianthera* are treated under *Isoglossa*, *Justicia*, *Leptostachya* and *Sphinctacanthus*; species of *Echinacanthus* are treated under *Strobilanthes* and *Clarkeasia*; some species of *Thunbergia* have been accommodated under *Meyenia*.

5. Such changing taxonomic concepts have resulted in nomenclatural changes of 135 species and 64 varieties. This includes the nomenclatural changes consequent to transfer of species from one genus to another, or species being split into more than one entity, e.g., *Justicia simplex* split into *J. japonica*, *J. nepalensis* and *J. simplex*; or more than one species have been merged into a single species e.g., *Echinacanthus andersoni* (including var. *viscosa*), *E. longistylus*, *E. parviflorus*, and *E. pumilio* have all been treated now under a single species viz., *Clarkeasia parviflora*. Many varieties of the *Flora of British India* have been merged with their typical species. Occasionally, they have been raised to or in many cases resurrected to their original specific status as they were reduced by C. B. Clarke.

6. The genus *Nomaphila* is suspected not to occur in India.

7. About 16 species and varieties which have been reported from outside India – from countries such as Bangladesh, Bhutan, Myanmar, Nepal, Pakistan or Sri Lanka - have been recorded from Indian territory in works subsequent to *Flora of British India*.

8. Additional taxa are: 7 genera have been added as new to science and 2 have been resurrected; 82 new species, 2 subspecies and 25 new varieties have been described so far; and, 9 species have been recorded as new to India. The genera such as *Hygrophila*, *Justicia*, *Strobilanthes* show marked increase in the number of species.

9. C.B. Clarke had recognised only *Strobilanthes* and he relegated the genera such as *Buteraea*, *Endopogon*, *Goldfussia*, *Leptacanthus*, *Phlebophyllum*, *Triaenacanthus*, etc. to synonymy. Bremekamp (Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41(1): 1 – 306. 1944) split *Strobilanthes* s.l. into many genera - chiefly relying on pollen characters. His treatment had been followed in many floristic works of India; as many as 29 genera have been accepted and consequently the *Strobilanthes* species have been transferred to them. Suryanarayana (Proc. Kon. Ned. Akad. Wetensch. ser. C, 73: 428. 1970) had described a new genus, *Supushpa*, to accommodate *Strobilanthes scrobiculata*.

However, we follow the views of J.R.I. Wood (Edinburgh J. Bot. 51: 175 – 273. 1994) and treat all the species of *Strobilanthes* in that genus only. This has caused the long list of generic synonyms under that genus in this work

To understand the genus better, further reading of the following articles – arranged chronologically - is suggested:

- Wood, J.R.I. 1995. Notes on *Strobilanthes* (Acanthaceae) for the flora of Ceylon. Kew Bull. 50: 1 – 24.
- Carine, M.A. & R.W. Scotland. 1998. Pollen morphology of *Strobilanthes* Blume (Acanthaceae) from southern India and Sri Lanka. Rev. Palaeobot. & Palyn. 103: 143 – 165.
- Bennett, J.R. & R.W. Scotland. 2003. A revision of *Strobilanthes* (Acanthaceae) in Java. Kew Bull. 58: 1 – 82.
- Wood, J.R.I. & R.W. Scotland. 2003. The 2-lipped species of *Strobilanthes* (Acanthaceae). Kew Bull. 58: 83 – 129.
- Wood, J.R.I., J.R. Bennett & R.W. Scotland. 2003. Notes on *Strobilanthes* : the *Sympagis* group. Kew Bull. 58: 131 – 173.
- Carine, M.A., J.M. Alexander & R.W. Scotland. 2004. A revision of the *Strobilanthes kunthiana* group (*Phlebophyllum* sensu Bremekamp) (Acanthaceae). Kew Bull. 59: 1 – 25.

Aceraceae

This family was part of the tribe Acerineae of the Sapindaceae of Fl. Brit. India 1: 668 – 699. 1875, and was treated by W. P. Hiern ; the two genera of the tribe form the family Aceraceae and the other genus *Dobinea* is included now in Anacardiaceae. The various other genera of Sapindaceae of *Flora of British India*, are presently treated under Aceraceae, Hippocastanaceae, Melianthaceae, Sapindaceae and Staphyleaceae.

Acer is the solitary genus of the family; 13 species and 2 varieties were listed in *Flora of British India*, 12 from India proper and 1 from Pegu. Presently, 1 genus, 24 species and 5 varieties occur in India.

Four species and one variety of *Flora of British India* have undergone nomenclatural changes. Twelve species – 2 cultivated – and 4 varieties have been added to India by later workers.

Acer caudatum sensu *Flora of British India* has been split into 3 species and 1 variety has been resurrected to species.

Actinidiaceae

This family was part of Ternstroemiaceae of Fl. Brit. India 1: 279 – 294. 1874 and was treated by W. T. Thiselton Dyer. The genera of Ternstroemiaceae of *Flora of British India* are now treated under Actinidiaceae, Clusiaceae p.p., Stachyuraceae and Theaceae. Actinidiaceae comprises the genera *Actinidia* and *Saurauia*; *Actinidia* had 2 species and *Saurauia* 8 species in *Flora of British India* of which 5 were from India and 3 from outside India – Bhutan Himalaya, Myanmar and Malacca.

One species of *Saurauia* has undergone nomenclatural change i.e., *S. cerea* to *S. armata*; it was reported from Bhutan Himalaya in *Flora of British India* and now is found to occur in E Himalaya and NE India.

Now, 3 species – 1 cultivated – and one variety in *Actinidia* are found in India. *Saurauia* contains 9 species – 3 additional species - 2 newly recorded and 1 species reported in *Flora of British India* from Myanmar subsequently found in E Himalaya and NE India (*S. macrotricha*).

Adoxaceae

This family has been segregated from Caprifoliaceae (Fl. Brit. India 3: 1. 1880) and contains the solitary genus *Adoxa*. C.B. Clarke treated this family and included one variety only under the genus. Presently the variety has been upgraded to species.

Aizoaceae

This was the tribe Aizoideae of the Ficoideae of Fl. Brit. India 2: 658 – 665. 1879. Of the three genera of the tribe Aizoideae, *Aizoon, Sesuvium*, and *Trianthema* – now treated as Aizoaceae — *Aizoon* is found in Sind (Pakistan); *Sesuvium* in *Flora of British India* had 1 species and *Trianthema* 5 species of which 1 was transferred to *Sesuvium*, 2 to *Trianthema* and 2 to the resurrected genus, *Zaleya* (it was synonymised under *Trianthema* in *Flora of British India*) – thus, a total of 5 species of a genus have undergone nomenclatural changes.

The remaining 4 genera of Ficoideae of *Flora of British India* are being treated presently under Molluginaceae and Phytolaccaceae.

At present, there are 2 species under *Sesuvium*, 2 species and 1 variety – additional – in *Trianthema* and 3 species and 1 variety in *Zaleya* – 1 species and 1 variety additional to *Flora of British India*.

Alangiaceae

This family was part of Cornaceae of Fl. Brit. India 2: 740 – 748. 1879 which was authored by C.B. Clarke; the various genera of Cornaceae are being treated now under Alangiaceae, Aucubaceae and Cornaceae – some authors treat the genus *Torricellia* under Torricelliaceae while some authors treat it under Cornaceae.

C. B. Clarke treated 2 genera – *Alangium* and *Marlea* – though Hook. f. had treated them under *Alangium* only in *Genera plantarum* – now, again both the genera are clubbed under *Alangium* only. In *Flora of British India, Alangium* has 1 species and 1 variety reported from Sri Lanka (Ceylon); *Marlea* had 5 species and 1 variety. There are five nomenclatural changes in this family; status of 1 variety has been raised to that of a species.

At present the family is represented in India by 1 genus and 5 species.

Amaranthaceae

Some important changes that have taken place in this family are :

Two genera have undergone nomenclatural changes – *Banalia* has become **Indobanalia** and *Psilostachys* has been merged with **Psilotrichum;** 23 species under various genera have undergone nomenclatural changes.

Centrostachys (*Alternanthera* p.p.) and *Trichuriella* (*Aerva* p.p.) are the additional genera and *Iresine* is an introduced genus added to Indian flora.

Twenty two species, 1 subspecies and 4 varieties have been added to Flora of India; one variety of *Flora of British India* has been raised as a species; 2 species each of *Allmania, Alternanthera* and *Amaranthus* have been reduced to 1 species under their respective genera; 3 varieties of *Amaranthus* have been

rechristened as (3) subspecies; one species each of *Celosia* and *Pupalia* have been reduced to varietal level.

Psilotrichum sclerantha which was reported from Sri Lanka in Flora of British India has been located subsequently in India.

Anacardiaceae

This family has been treated by Hook. f. (Fl. Brit. India 2: 7 – 44. 1876).

The genus *Rumphia* was included as a 'doubtful genus' which was solely based on van Rheede's *Hortus malabaricus*.

Some points made by earlier workers about this genus merit mention here:

Hook. f. (op. cit. 44) included *Rumphia* L., Sp. pl. 1193. 1753 under the category 'doubtful genus' with the species *Rumphia tiliifolia* Lam. The type species *Rumphia amboinensis* L. was cited as a synonym Though he placed it (at the end of) Anacardiaceae he felt it *looked more like* an Euphorbiaceous or Verbenaceous plant. He knew nothing about this plant excepting the plate and description of Rheede (Hort. malab. 4: 25 – 76, t. 11. 1683).

Airy Shaw in Willis, *Dict. fl. pl.* 8th ed. : 1012. 1973 treats it thus: *Rumphia* L. = ? *Cordia* L. (Ehretiaceae) vel ? *Croton* L. (Euphorbiaceae).

Swart in E. R. Farr, Leuss. & Staflen (Eds.), *Index nom. gen. (pl.)* 3: 1537. 1979 suspected that this genus might belong to Boraginaceae.

Nicolson et al. have treated this species – reproduced below - as 'Incertae sedis' in their work *An interpretation of van Rheede's Hortus malabaricus*.

Rumphia amboinensis L., Sp. pl. 1193. 1753 & Sp. pl. ed. 2. 49. 1762; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede, Hort. malab.): 319. 1988.

Rumphia tiliifolia Lam., Tabl. encycl. 1: 96, t. 25. 1791(' tiliaefolia'); Hook. f., Fl. Brit. India 2: 44. 1876.

Cordia tiliifolia Warb. in Greshoff, Rumph. Gedenkboek 78. 1902.

Nicolson et al. suggest treatment of this Linnaean genus and species as *nomina dubia*.

Gamble (*Fl. Madras* 1: 183 – 192. 1967, 2nd Repr.), Santapau & A.N. Henry, (*Dict. fl. pl. India*, 1973), Mukh. & D. Chandra [in Bull. Bot. Surv. India 25: 52 – 61. (1983) 1985 & in N.P. Singh et al., *Fl. India* 5: 435 – 510. 2000], Brummitt (*Vasc. pl. fam. & gen.* 1992) and Mabberley (*Plant-book*) have not mentioned this genus in their works.

At present, this family contains 20 genera, 72 species, and 4 varieties.

Twenty three species of *Flora of British India* have undergone nomenclatural changes: *Melanorrhoea usitata* has been transferred to *Gluta; Rhus cotinus* has been transferred to the additional genus *Cotinus; Spondias axillaris* has been transferred to the newly created genus *Choerospondias* and *Solenocarpus indica* has been transferred to *Spondias*.

Fifteen species and 2 varieties have been added as new to Science, and 5 species and 2 subspecies were new records for India.

The genera such as *Buchanania, Holigarna, Mangifera, Nothopegia* and *Semecarpus* indicate a substantial increase in number of species.

Ancistrocladaceae

The genus *Ancistrocladus* was part of Dipterocarpaceae of Fl. Brit. India 1: 299 - 300. 1874 and was treated by W. T. Thiselton Dyer. Out of 7 species listed in that work only 2 were from present day India.

Presently, 1 species has been added to *Flora of British India* and 2 species which were reported from outside India - Pegu and Penang – were subsequently located in India and they both have been merged into a single species.

Annonaceae

This family was treated by Hook f. and Thomson – Fl. Brit. India 1: 45 94. 1872.

Some important taxonomic and nomenclatural changes that have taken place are :

Three genera - *Bocagea, Melodorum* and *Oxymitra* have undergone nomenclatural changes. Two *Polyalthia* species have been transferred to *Trivalvaria* – an additional genus to *Flora of British India*. *Saccopetalum tomentosum* has been transferred to *Miliusa*. Many *Unona* species have been transferred to *Desmos, Meiogyne* –both additions to *Flora of British India* – and *Polyalthia*. Two species from *Uvaria* have been shifted to *Cyathostemma*. Indian species of *Melodorum* have been transferred to *Fissistigma* which is an additional genus to *Flora of British India*. All these have resulted in nomenclatural changes for 34 species and 8 varieties. And the status of 4 varieties of *Miliusa* and *Uvaria* have been raised to that of species.

The genera such as *Goniothalamus, Miliusa, Orophea, Polyalthia, Sageraea* and *Uvaria* have shown considerable increase in their number of species.

Apiaceae [Umbelliferae]

C.B. Clarke has treated this family – Fl. Brit. India 2: 665 – 720. 1879. He described 38 genera, 145 species and 31 varieties from the Indian region. Now the family is represented in India by 73 genera, 273 species, 16 varieties and 2 formae. The increase in the number of genera has been caused due to the creation of new genera by splitting the already existing ones due to taxonomic reasons and also due to additional records to India.

Some important taxonomic and nomenclatural changes are :

Some species of *Carum* have been transferred to additional genera such as *Bunium* and *Trachyspermum*. Some species under *Caucalis* have been transferred to *Torilis* and *Turgenia* – both additional genera to *Flora of British India*. A species of *Chaerophyllum* has been transferred to *Neoconopodium*. One species of *Cortia* has been split into 2 species and accommodated into 2 different genera viz., *Cortiella* – an additional genus – and *Selinum*. Many species of *Heracleum* have been accommodated in various genera such as *Angelica, Pimpinella, Semenovia, Tordyliopsis, Tricholaser, Vanasushava* and *Polyzygus* while a few species have been retained in that genus itself. *Hydrocotyle asiatica* has been transferred to *Centella*. While a few species of *Peucedanum* have been retained in that genus itself, the rest of the species have been transferred to *Anethum, Angelica, Ferula* and *Heracleum*. The species and variety of *Ligusticum* sensu *Flora of British India* have been transferred to *Seseli*. *Pimpinella* species have been transferred to various genera such as *Acronema, Eriocycla, Meeboldia, Pimpinella, Trachyspermum* and *Vicatia*. Species of *Pleurospermum* have been accommodated in *Aulacospermum, Pleurospermopsis* and *Pleurospermum*. *Seseli daucifolium* has been transferred to *Cnidium*. The species of *Trachydium* have been transferred to *Chamaesium, Physospermopsis* and *Schulzia*. The genus *Zosima* has been added to Indian flora – in *Flora of British India* it was listed from Sind and Punjab of present day Pakistan.

Genera like *Aegopodium, Ammi, Berula, Conium, Cyclospermum, Lisaea, Pastinaca* (cult.), *Scaligeria, Tongoloa* etc., have been recorded from India subsequent to the publication of *Flora of British India*. The genera such as *Haplosphaera, Indoschulzia, Karnataka* (*Schultzia* sensu *Flora of British India*), *Kedarnatha, Lalldhwojia, Pinda, Semenovia, Sinocarum, Tricholaser* and *Vanasushava* contain some species endemic to India.

One species each of *Bupleurum*, and *Chaerophyllum* have been reduced to varieties. One species of *Eryngium* has been reduced to a subspecies. Eight varieties in *Bupleurum*, 1 variety in *Carum*, 2 varieties of *Hydrocotyle*, 2 varieties of *Pleurospermum*, 1 variety of *Psammogeton*- which was reported from Sind (Pakistan) in *Flora of British India* but subsequently reported from India - have all been upgraded to species. Two varieties of *Selinum* have been resurrected as species.Under *Carum* 1 species each from Nepal and Sri Lanka and 1 species of *Oenanthe* from Nepal – reported in *Flora of British India* - have been found to occur in India too. Consequent to all these taxonomic changes, 14 genera, 72 species and 26 varieties have undergone nomenclatural changes.

Since 1879 to date, 77 species, 6 varieties and 1 forma have been added as new to science, and 17 species, 2 varieties and 1 forma were additional records to Indian flora.

The genera such as *Bupleurum, Pleurospermum*, etc. have increased number of species.

Apocynaceae

Hook. f. – Fl. Brit. India 3: 621 – 671. 1882 – treated this family. He reported *Apocynum* – dealt under *Trachomitum* in this work – and *Kopsia* from Pegu and Malacca, *Rhazya* from Sind and Peshawar (presently in Pakistan) and *Urceola* from Malacca, Penang, Myanmar and Singapore. Subsequently these genera have been located in India proper. *Allamanda* (cult.), *Bousigonia, Catharanthus* (occasionally cult.) *Kibatalia, Thevetia* (cult.), and *Voacanga* (cult.) are additional genera to *Flora of British India*.

Taxonomic and Nomenclatural changes :

Names of 5 genera, 34 species and 5 varieties have changed; 1 variety has been merged with the species proper; the status of 2 varieties have been raised to species and 2 have retained their varietal status with changed names; and 1 species has been reduced to a forma. Though all the species of *Urceola* of *Flora of British India* were from outside Indian limits i.e., Malacca, Myanmar, Penang and Singapore, the genus is now recorded from India as a species of *Ecdysanthera* sensu *Flora of British India* and a few more additional species of the genus occur in India.

Forty seven species, 8 varieties and 9 cultivated species have been added to the Indian flora.

The genera such as *Alstonia, Carissa* and *Wrightia* have increased number of species.

Aquifoliaceae

This was treated as (Order) Ilicineae in Fl. Brit. India – 1: 598 – 606. 1875 by Hook. f.; *Ilex* was the only genus with 17 species and 1 variety from India. Present work contains 1 genus, 25 species, 2 varieties and 2 formae.

Five species have undergone nomenclatural changes – 1 species of *Flora of British India* has been reduced to a variety. Nine species, 1 variety and 2 formae have been added to *Flora of British India*.

Araliaceae

This family was treated by C. B. Clarke (Fl. Brit. India 2 : 720 – 740. 1879). *Helwingia* treated under Araliaceae by him now belongs to Cornaceae. Presently Araliaceae sensu *Flora of British India* is considered to contain Cornaceae and Araliaceae.

Eight genera, 28 species and 12 varieties have undergone nomenclatural changes 3 varieties have been raised to specific level and 1 variety has been merged with the species proper. *Acanthopanax* and a few species of *Aralia* have been transferred to *Eleutherococcus* – an additional genus; one species of *Brassaiopsis* has been accommodated in the additional genus *Merrilliopanax; Brassaia, Heptapleurum* and *Tupidanthus* have been merged with *Schefflera; Panax* has been merged with *Polyscias* and *Pentapanax* has been merged with *Aralia*.

Sixteen species and 5 varieties as new to science and 11 species as new records to the country – of which 2 were cultivated species – were added to Indian flora.

The genus, *Aralia* has shown a considerable increase in number of species.

Aristolochiaceae

Hook. f. treated this family in Fl. Brit. India 5: 72 – 77. 1886.

Taxonomic and Nomenclatural changes :

Species of two genera – *Aristolochia* and *Braguntia* – have undergone nomenclatural changes. A few species of *Aristolochia* have been transferred to *Isotrema*. *Braguntia* is included in *Thottea* – incidentally, the 3 species of *Thottea* sensu Fl. Brit. India do not occur in India – they were all reported from Malacca and Singapore. Thus, *Thottea* is an additional genus to Indian flora. Totally, 7 species and 1 variety have undergone nomenclatural changes.

Thirteen species and 1 variety have been added to Indian flora as new to science; 2 new records to India have been added and 2 are cultivated species.

The genus *Thottea* has shown an appreciable increase in number of species.

Asclepiadaceae

Asclepiadaceae was treated by Hook. f. (Fl. Brit. India 4: 1-78. 1883).

Taxonomic and Nomenclatural changes :

Eight genera, 61 species and 10 varieties have undergone nomenclatural changes. Species of *Brachylepis* with *Decalepis* and *Oianthus* with *Heterostemma* have been merged.

Ten species which were reported from outside India have been subsequently reported from this region.

One new genus, *Seshagiria*, about 76 new species, 2 subspecies and 11 varieties have been described since the publication of *Flora of British India*.

Some genera which show increased number of species include *Brachystelma, Caralluma, Ceropegia, Dischidia* and *Gymnema*.

Asteraceae

Asteraceae (Compositae) was treated by Hook. f. (Fl. Brit. India 3: 219-419. 1881).

As this family has registered a vast increase in the generic and species content in the past about 12 decades the species have increased by 83. 39%. So, the family deserves a closer look and a detailed analysis.

Taxonomic and Nomenclatural changes:

A total of 44 genera, 275 species, 18 varieties have undergone nomenclatural changes.

The genera of *Flora of British India* which have been split and the genus in which their species have been accommodated is shown below:

Genera in FBI	Species accommodated in the following genera
Anaphalis	*Anaphalis, Helichrysum*
Artemisia	*Artemisia, Artemisiella, Seriphidium*
Blumea	*Blumea, Pluchea*
Carduus	*Carduus, Olgaea*
Chrysanthemum	*Chrysanthemum, Tanacetum*
Cremanthodium	*Cremanthodium, Ligularia*
Crepis	*Crepis, Dubyaea, Launaea, Soroseris, Youngia*
Doronicum	*Doronicum, Nannoglottis*
Erigeron	*Conyza, Erigeron, Psychrogeton*
Eupatorium	*Ayapana, Eupatorium*
Filago	*Filago, Logfia*
Gerbera	*Gerbera, Leibnitzia, Piloselloides*
Gnaphalium	*Gamochaeta, Gnaphalium, Homognaphalium, Omalotheca, Pseudognaphalium*
Inula	*Duhaldea, Inula, Nannoglottis*
Jurinea	*Jurinea, Jurinella, Lipschitziella*
Lactuca	*Cephalorrhynchus, Chaetoseris, Dubyaea, Ixeridium, Ixeris, Lactuca, Launaea, Mulgedium, Stenoseris*
Laggera	*Laggera, Pseudoconyza*
Launaea	*Launaea, Paramicrorhynchus*
Microglossa	*Aster, Microglossa, Psiadia*
Prenanthes	*Cicerbita, Lactuca, Prenanthes*
Saussurea	*Hemisteptia, Saussurea*
Senecio	*Cissampelopsis, Cremanthodium, Ligularia, Parasenecio, Senecio, Synotis*
Spilanthes	*Acmella, Spilanthes*
Tanacetum	*Ajania, Hippolytia, Tanacetum*
Vernonia	*Cyanthillium, Phyllocephalum, Vernonia*
Wedelia	*Wedelia, Wollastonia*

A few genera described in *Flora of British India* have been merged later with different genera. The details are:

1. (One species of) *Hochstetteria* (which was reported from outside India) has been collected from India and merged with *Dicoma*.
2. One species each of *Phaecasium* and *Pterotheca* have been merged with *Crepis*.
3. Two species of *Werneria* have been transferred to *Cremanthodium*.
4. One species of *Sphaeromorphaea* has been merged with *Epaltes*.
5. One species of *Glossogyne* has been merged with *Glossocardia*.

Splitting of species:

The species which have been treated as a single entity in the *Flora of British India* have been found to be split into 2, 3, 4 or even 5 different entities. A few examples are: *Blumea glomerata* has been split into *Blumea fistulosa* and *Blumea sessiliflora*. *Crepis glomerata* has been split into *Soroseris deasyi, Soroseris glomerata* and *Soroseris hookeriana*. *Leontopodium alpinum* has been segregated into *Leontopodium alpinum, Leontopodium brachyactis, Leontopodium himalayanum* and *Leontopodium monocephala*. And *Artemisia vulgaris* of Fl. Brit. India is presently treated under *Artemisia dubia, Artemisia indica, Artemisia myriantha, Artemisia nilagirica* and *Artemisia verlotorum*.

Merging of species:

Often two species have been merged into a single species, e.g. *Senecio lawii* merged with *Senecio dalzellii*.

Reduction of species to varieties :

A few species have been reduced to varieties, e.g. *Blumea spectabilis* reduced to *Blumea lanceolaria* var. *spectabilis*.

Nearly 19 varieties have either been upgraded to species or resurrected to the specific status (in Fl. Brit. India they were reduced to varietal level).

About 14 varieties have been merged with their species proper.

Additional taxa:

About 66 genera, 428 species (215 are new to science), 20 subspecies (3 new to science), 58 varieties (28 new to science), and 7 formae (5 new to science) have been added.

Genera such as *Anthemis, Dicoma, Lasiopogon, Reichardia* and *Pterocaulon* and 33 species and 1 variety which have been reported from outside India have been found to occur in India.

Genera such as *Anaphalis, Artemisia, Aster, Erigeron, Leontopodium, Saussurea, Senecio, Vernonia,* etc. have registered substantial increase in number of species. *Taraxacum* in Fl. Brit. India had just 2 species whereas at present it has 87 species.

Avicenniaceae

This was part of Verbenaceae in Fl. Brit. India (4: 604. 1885) which was treated by C.B. Clarke.

It contained one genus and one species from India and one variety was reported from Malayan Peninsula.

At present, the species has been split into two. The variety which was reported from outside India – has been recorded and raised to a species. Further one variety has been added.

Thus the family is represented by one genus, 3 species and one variety.

The present status of these 18 families in India is:

S. No.	Family	Genera	Species	sub-species	Varieties	Formae
1.	Acanthaceae	49	472	3	65	1
2.	Aceraceae	1	22	1	5	—
3.	Actinidiaceae	2	11	—	1	—
4.	Adoxaceae	1	1	—	—	—
5.	Aizoaceae	3	7	—	2	—
6.	Alangiaceae	1	5	—	—	—
7.	Amaranthaceae	18	53	4	15	—
8.	Anacardiaceae	19	67	—	4	—
9.	Ancistrocladaceae	1	4	—	—	—
10.	Annonaceae	23	135	—	7	—
11.	Apiaceae	69	252	—	15	—
12.	Apocynaceae	37	105	—	13	—
13.	Aquifoliaceae	1	26	—	2	2
14.	Araliaceae	14	66	—	13	—
15.	Aristolochiaceae	4	26	—	2	—
16.	Asclepiadaceae	46	255	5	18	—
17.	Asteraceae	193	999	21	122	7
18.	Avicenniaceae	1	3	—	1	—
	Total	**483**	**2509**	**34**	**285**	**10**

Though, an attempt has been made to include all the wildly occurring flowering plants of India, occasionally we had to include some cultivated plants too as they have been mentioned in the Flora of British India and also many other floristic works. However, it has to be emphasised that listing cultivated plants is beyond the purview of this work.

New names and new combinations proposed in this work:

During the course of this work it was found necessary to propose 10 new names and 62 new combinations in accordance with the provisions of ICBN– the list is appended to the end of the work.

Concluding remarks

We quote Tseng–Chieng Huang – J. Jap. Bot. 65: 156. 1990 – which is relevant to this work – *Rather than waiting for a definitive work in the distant future, we here propose to summarise our current knowledge in a form that can be of some help in meeting immediate needs. This work can also be used as a basis for further improvement.*

This work is an unbiased compilation; we have made attempts to verify the correct nomenclature by scanning articles in various journals, revisions, monographs, floras, etc., which were numerous to mention here. Also, web sites viz., International Plant Names Index (IPNI), Tropicos, and Google were referred to check the dates of publications, to standardise the author names, periodicals and titles. Especially to finalise author abbreviations often we had to go to the originals – names like Rao, Singh

etc., which were too many could not be finalised without seeing the original publications. Often we found author of the taxa and the bibliographic citations were incorrect – they were differing from what has been given in IPNI or Tropicos and we had to correct them. At this juncture, we want to recollect B. L. Burtt – Notes Roy. Bot. Gard. Edinburgh 45: 405. 1988 - who commented, "A compilation is only as good as its sources and no one could expect the author to check back every entry to original data ..."

All efforts have been made to make the work as complete as possible because this work will be a must for all botanists – not only the trained ones but also non-botanists either attached to NGO's who do a lot of work on environment-related projects or attached to any organisation where plant-based research is pursued.

Quite often, one will find that the bibliographic citations of the authority- who has been cited after the correct name- may differ with the one provided in this work. Monographs/revisions and also the websites mentioned above, and Index Kewensis have been referred to give a correct picture.

On various occasions, the omissions we came across while checking all the entries have been indicated; our intention was to rectify, not to find fault with anybody's work.

It is recognised that there must be some shortcomings in this work; it shall be appreciated if the user/s will bring it to our notice- the information may be forwarded to S. Karthikeyan, 3, Dwaraka kunj, Krishna colony, Paramahamsa Nagar, Paud Road, Pune – 411038* and they will be suitably acknowledged. We hope it will help in improving the subsequent volumes of this work.

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Plate 1. **ACANTHACEAE: A & B.** *Acanthus ilicifolius* L.; **C.** *Andrographis ceylanica* Nees; **D & E.** *Andrographis echioides* (L.) Nees; **F.** *Andrographis neesiana* Wight; **G.** *Andrographis paniculata* (Burm. f.) Wall. ex Nees; **H.** *Andrographis serpyllifolia* (Rottler ex Vahl) Wight; **I.** *Barleria acuminata* Wight ex Nees

Plate 2. **ACANTHACEAE**: **A**. *Barleria courtallica* Nees; **B** & **C**. *Barleria cristata* L. ; **D**. *Barleria cuspidata* Heyne ex Nees; **E**. *Barleria involucrata* Nees var. *elata* (Dalzell) C. B. Clarke; F. *Barleria longiflora* L. f.; **G**. *Barleria noctiflora* L.; **H**. *Barleria prattensis* Santapau; **I**. *Barleria prionitis* L.

Plate 3. **ACANTHACEAE**: **A**. *Barleria strigosa* Willd.; **B**. *Calacanthus grandiflorus* (Dalzell) Radlk.; **C**. *Dicliptera foetida* (Forssk.) Blatt.; **D**. *Eranthemum roseum* (Vahl) R. Br.; **E**. *Graptophyllum pictum* (L.) Griff.; **F**. *Gymnostachyum febrifugum* Benth.; **G**. *Haplanthodes verticillata* (Roxb.) R. B. Majumdar; **H**. *Hemigraphis urens* (Roth) J.R.I. Wood

Plate 4. **ACANTHACEAE**: **A**. *Hygrophila erecta* (Burm. f.) Hochr.; **B**. *Hygrophila schulli* (Buch.-Ham.) M.R.& S.M.Almeida; **C**. *Justicia adhatoda* L.; **D**. *Justicia glauca* Rottler; **E**. *Justicia wynaadensis* (Nees) T. Anderson; **F**. *Lepidagathis cristata* Willd.; **G**. *Lepidagathis incurva* Buch.-Ham. ex D. Don; **H**. *Lepidagathis mitis* Dalzell

Plate 5. **ACANTHACEAE**: **A**. *Nelsonia canescens* (Lam.) Spreng.; **B**. *Phaulopsis imbricata* (Forssk.) Sweet ; **C**. *Phlogacanthus grandis* T. Anderson; **D**. *Phlogacanthus thyrsiformis* (Roxb. ex Hardw.) Mabb.; **E**. *Rhinacanthus nasutus* (L.) Kuntze; **F**. *Ruellia patula* Jacq.

Plate 6. **ACANTHACEAE: A**. *Ruellia patula* Jacq.; **B**. *Staurogyne simonsii* (T. Anderson) Kuntze; **C** & **D**. *Strobilanthes callosa* Nees; **E**. *Strobilanthes ciliata* Nees; **F** & **G**. *Strobilanthes ixiocephala* Benth.

Plate 7. **ACANTHACEAE**: **A**. *Thunbergia alata* Bojer ex Sims; **B**. *Thunbergia fragrans* Roxb.; **C**. *Thunbergia grandiflora* Roxb. **ACERACEAE**: **D**. *Acer oblongum* Wall. ex DC. **AIZOACEAE**: **E**. *Sesuvium portulacastrum* (L.) L.; **F**. *Trianthema portulacastrum* L.

Plate 8. **ALANGIACEAE**: **A**. *Alangium chinense* (Lour.) Harms.; **B** & **F**. *Alangium salviifolium* (L.) Wangerin subsp. *hexapetalum* Wangerin; **C**, **D** & **E**. *Alangium salviifolium* (L.) Wangerin subsp. *salviifolium*

Plate 9. **AMARANTHACEAE**: **A** & **B**. *Achyranthes aspera* L. var. *aspera*; **C**. *Allmania nodiflora* (L.) R. Br. ex Wight; **D**. *Amaranthus spinosus* L.; **E** & **F**. *Celosia argentea* L.; **G** & **H**. *Trichuriella monsoniae* (L. f.) Bennet

Plate 10. **ANACARDIACEAE**: **A**. *Gluta travancorica* Bedd.; **B**. *Holigarna arnottiana* Hook. f.; **C** & **D**. *Holigarna grahamii* (Wight) Kurz; **E**, **F** & **G**. *Nothopegia castaneaefolia* (Roth) Ding Hou

Plate 11. **ANACARDIACEAE**: **A**. *Nothopegia travancorica* Bedd. ex Hook. f.; **B** & C. *Rhus mysorensis* G. Don; **D**. *Rhus semialata* Murray; **E**. *Semecarpus auriculata* Bedd.; **F**. *Spondias indica* (Wight & Arn.) Airy Shaw & Forman; **G**. *Spondias pinnata* (L. f.) Kurz

Plate 12. **ANCISTROCLADACEAE: A, B & C.** *Ancistrocladus heyneanus* Wall. ex J. Graham

Plate 13. **ANNONACEAE**: **A**. *Alphonsea sclerocarpa* Thwaites; **B**. *Annona cherimola* Mill.; **C**. *Annona glabra* L.; **D**. *Annona muricata* L.; **E**. *Artabotrys hexapetalus* (L. f.) Bhandari; **F**. *Artabotrys zeylanicus* Hook. f. & Thomson; **G**. *Cyathocalyx zeylanicus* Cham. ex Hook. f. & Thomson; **H**. *Desmos lawii* (Hook. f. & Thomson) Saff.; **I**. *Desmos longiflorus* (Roxb.) Saff.

Plate 14. **ANNONACEAE**: **A**. *Goniothalamus cardiopetalus* (Dalzell) Hook. f. & Thomson; **B**. *Goniothalamus wightii* Hook.f. & Thomson; **C**. *Goniothalamus sesquipedalis* (Wall.) Hook. f. & Thomson; **D**. *Goniothalamus wynaadensis* (Bedd.) Bedd.; **E**. *Meiogyne pannosa* (Dalzell) J. Sinclair; **F**. *Meiogyne ramarowii* (Dunn) Gandhi; **G**. *Miliusa nilagirica* Bedd.; **H**. *Miliusa tomentosa* (Roxb.) Finet & Gagnep.

Plate 15. **ANNONACEAE**: **A , B & C**. *Miliusa tomentosa* (Roxb.) Finet & Gagnep.; **D**. *Miliusa wightiana* Hook. f. & Thomson; **E**. *Mitrephora grandiflora* Bedd.; **F**. *Orophea malabarica* Sasidh. & Sivar.; **G**. *Orophea uniflora* Hook. f. & Thomson; **H**. *Polyalthia cerasoides* (Roxb.) Bedd.; **I**. *Polyalthia fragrans* (Dalzell) Bedd.

Plate 16. **ANNONACEAE**: **A**. *Polyalthia shendurunii* Basha & Sasidh.; **B** & **C**. *Polyalthia suberosa* (Roxb.) Thwaites; **D**. *Sageraea laurina* Dalzell; **E, F** & **G**. *Uvaria narum* (Dunal) Blume; **H** & **I**. *Uvaria zeylanica* L.

Plate 17. **APIACEAE**: **A**. *Eryngium foetidum* L.; **B**. *Hydrocotyle javanica* Thunb.; **C**. *Hydrocotyle podantha* Molk.; **D**. *Pinda concanensis* (Dalzell) P. K. Mukh. & Constance

Plate 18. **APOCYNACEAE**: **A**. *Alstonia macrophylla* Wall. ex G. Don; **B**. *Alstonia scholaris* (L.) R. Br.; **C**. *Alstonia venenata* R. Br.; **D**. *Anodendron paniculatum* A. DC.; **E**. *Beaumontia jerdoniana* Wight; **F** & **G**. *Carissa carandas* L.

Plate 19. **APOCYNACEAE**: **A**. *Carissa inermis* Vahl; **B**. *Catharanthus pusillus* (Murray) G. Don; **C**. *Cerbera odollam* Gaertn.; **D**. *Chilocarpus denudatus* Blume; **E**. *Chonemorpha fragrans* (Moon) Alston; **F**. *Gymnema inodorum* (Lour.) Decne; **G**. *Holarrhena pubescens* (Buch.-Ham.) Wall. ex G. Don

Plate 20. **APOCYNACEAE**: **A**. *Kamettia caryophyllata* (Roxb.) Nicolson & Suresh; **B**. *Kopsia fruticosa* (Ker Gawl.) A. DC.; **C**. *Rauvolfia serpentina* (L.) Benth. ex Kurz; **D**. *Rauvolfia tetraphylla* L; **E & F**. *Rauvolfia verticillata* (Lour.) Baill.; **G**. *Strophanthus wightianus* Wight; **H**. *Tabernaemontana heyneana* Wall.

Plate 21. **APOCYNACEAE**: **A, B & C**. *Tabernaemontana heyneana* Wall.; **D**. *Vallaris solanacea* (Roth) Kuntze; **E**. *Wrightia arborea* (Dennst.) Mabb.; **F**. *Wrightia tinctoria* (Roxb.) R. Br.

Plate 22. **AQUIFOLIACEAE**: **A**. *Ilex denticulata* Wight; **B**. *Ilex dipyrena* Wall.; **C**. *Ilex gardneriana* Wight; **D**. *Ilex khasiana* Purkayastha

Plate 23. **ARALIACEAE**: **A**. *Macropanax dispermus* (Blume) Kuntze; **B**, **C** & **D**. *Schefflera elliptica* (Blume) Harms

Plate 24. **ARISTOCHIACEAE**: **A**. *Aristolochia bracteolata* Lam.; **B**. *Aristolochia indica* L.; **C**. *Thottea tomentosa* (Blume) Ding Hou

Plate 25. **ASCLEPIADACEAE**: **A**. *Asclepias curassavica* L.; **B**. *Ceropegia fantastica* Sedgw.; **C**. *Ceropegia oculata* Hook.; **D**. *Ceropegia spiralis* Wight; **E**. *Ceropegia vincaefolia* Hook.; **F**. *Dregea volubilis* (L. f.) Benth. ex Hook. f.; **G** & **H**. *Frerea indica* Dalzell.

Plate 26. **ASCLEPIADACEAE**: A & B. *Gymnema khandalense* Santapau; C & D. *Heterostemma urceolatum* Dalzell; E. *Holostemma ada-kodien* Schult.; F. *Hoya lanceolata* Wall. ex D. Don

Plate 27. **ASCLEPIADACEAE**: A. *Hoya wightii* Hook. f.; B. *Pergularia daemia* (Forssk.) Chiov.; C. *Tylophora indica* L. D. *Tylophora rotundifolia* Buch.-Ham. ex Wight **ASTERACEAE**: E. *Acanthospermum hispidum* DC.; F. *Acmella calva* (DC.) R.K. Jansen; G. *Adenoon indicum* Dalzell

Plate 28. **ASTERACEAE**: **A**. *Adenostemma lavenia* (L.) Kuntze; **B**. *Blaivillea acmella* (L.) Philipson; **C**. *Blepharispermum subsessile* DC.; **D**. *Caesulia axillaris* Roxb.; **E**. *Conyza bonariensis* (L.) Cronquist; **F**. *Cyathocline lutea* Law ex Wight; **G**. *Cyathocline purpurea* (D.Don) Kuntze; **H**. *Dichrocephala integrifolia* Hook. f.; **I**. *Echinops echinatus* Roxb.

Plate 29. **ASTERACEAE**: **A**. *Eclipta prostrata* (L.) L.; **B**. *Enydra fluctuans* Lour.; **C**. *Galinsoga parviflora* Cav.; **D**. *Grangea maderaspatana* (L.) Poir.; **E**. *Gynura nitida* DC.; **F**. *Lagascea mollis* Cav.; **G**. *Melampodium paludosum* Kunth; **H**. *Nanothamnus sericeus* Thomson.; **I**. *Pentanema indicum* (L.) Ling

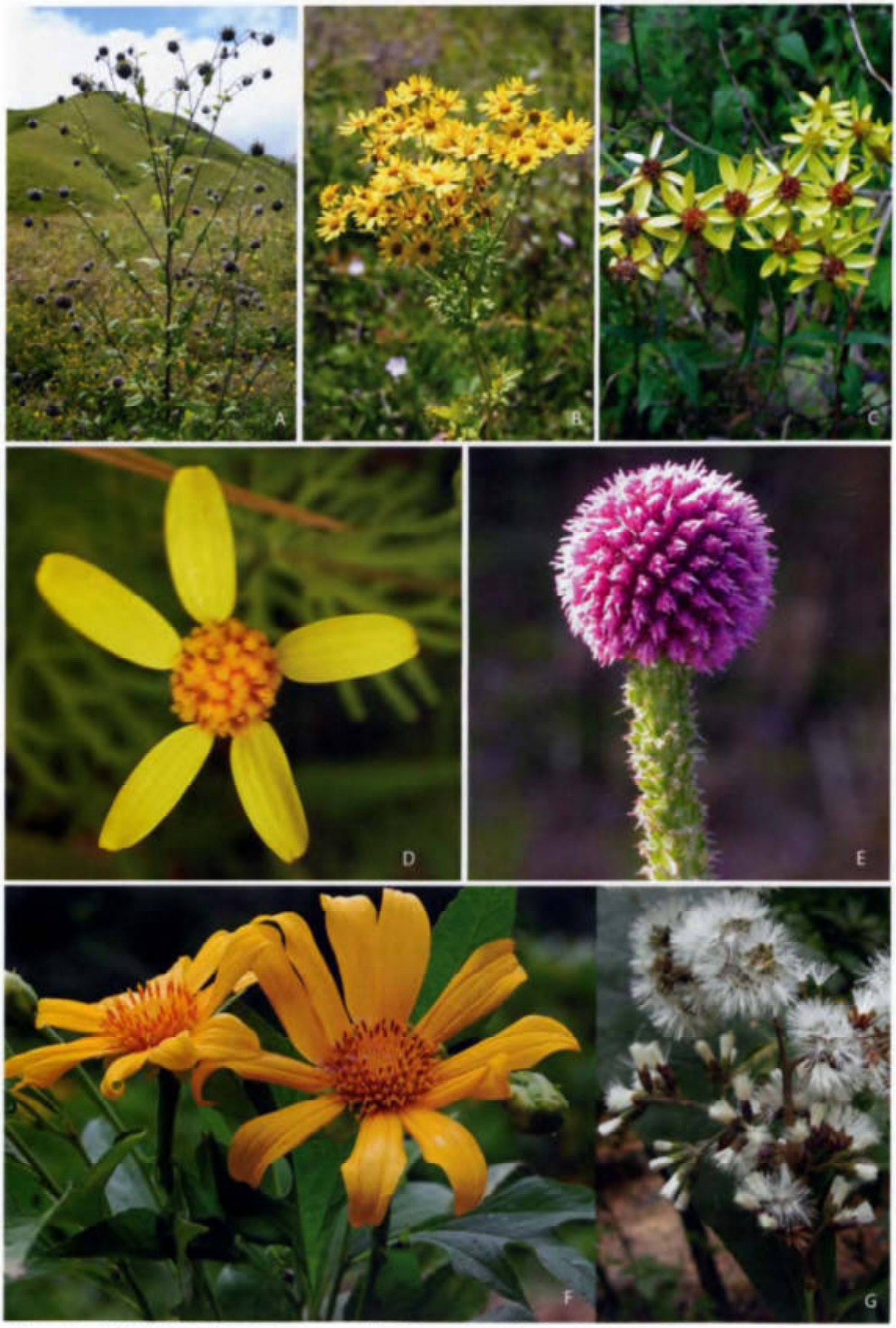

Plate 30. **ASTERACEAE**: **A**. *Saussurea deltoidea* (DC.) Sch. Bip.; **B**. *Senecio laetus* Edgew.; **C**. *Senecio scandens* Buch.-Ham. ex D. Don; **D**. *Senecio tenuifolius* Burm. f.; **E**. *Sphaeranthus indicus* L.; **F**. *Tithonia diversifolia* (Hemsl.) A. Gray; **G**. *Vernonia volkameriifolia* DC.

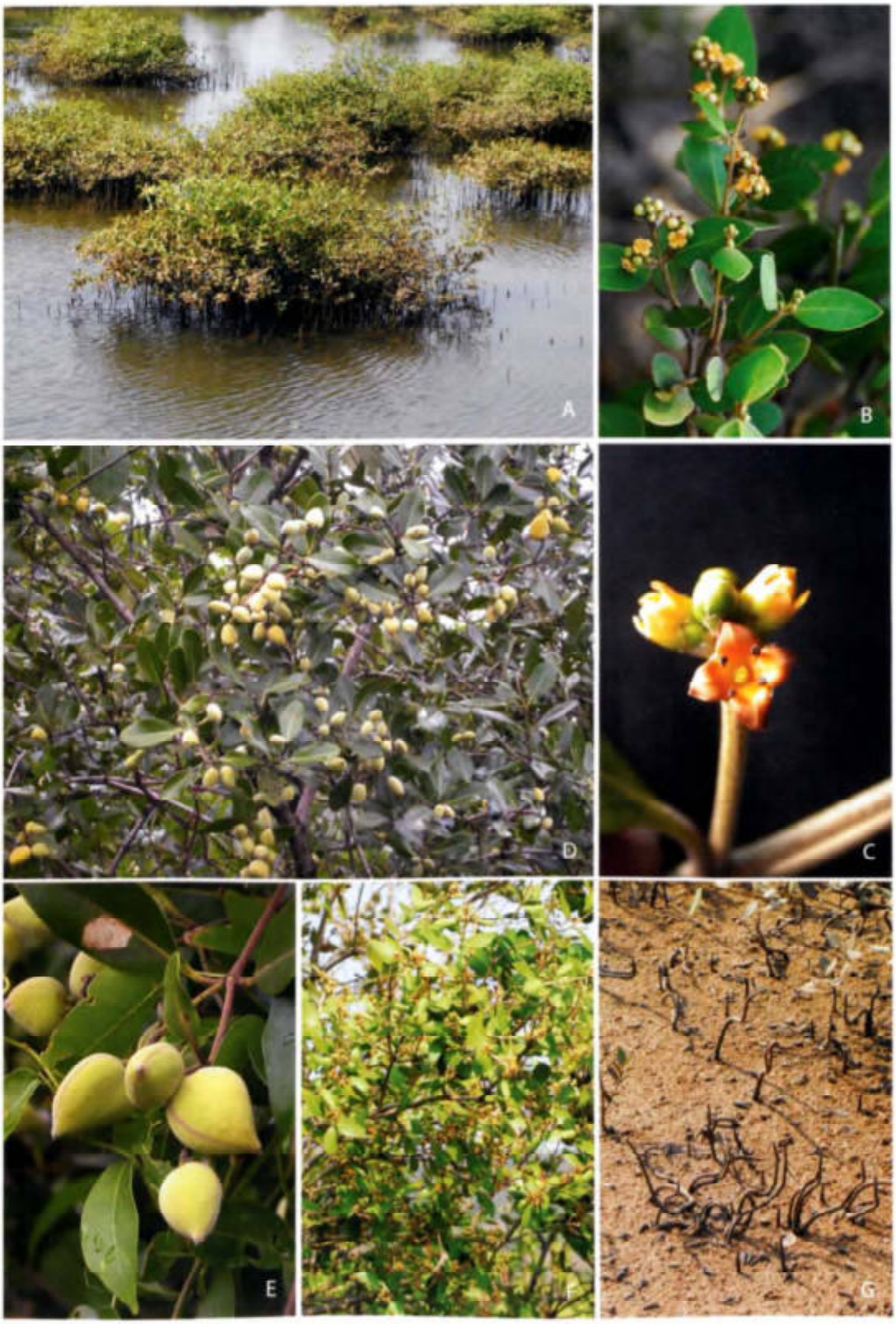

Plate 31. **AVICENNIACEAE**: **A**. *Avicennia marina* (Forssk.) Vierh.; **B**. *Avicennia marina* (Forssk.) Vierh. var. *acutissima* Stapf & Moldenke; **C**, **D** & **E**. *Avicennia officinalis* L.; **F**. *Avicennia marina* (Forssk.) Vierh. var. *marina*; **G**. Pneumatophores of *Avicennia marina* (Forssk.) Vierh.

ACANTHACEAE

ACANTHOPALE C.B. Clarke in Oliv., Fl. trop. Afr. (Ed. Dyer) 5: 62. 1899.

Acanthopale jogensis Gilli in Ann. Naturhist. Mus. Wien 59: 135. 1953.
SW Ghats (Karnataka).

ACANTHUS L., Sp. pl. 639. 1753.

Acanthus carduaceus Griff., Itin. pl. Khasyah mts. (Posth. papers) 144. 1837-38 & Ic. pl. asiat. t. 427. 1854; Sikdar & Maiti in J. Bombay Nat. Hist. Soc. 78: 635, f. 1. 1981.
E Himalaya, W Bengal.
Note: Chhetri reported *Acanthus ilicifolius* from Darjeeling in W Bengal (Curr. Sci. 83: 1199. 2002); R.P. Bhattacharya in J. Econ. Taxon. Bot. 31: 622. 2007 clarifies it is only *Acanthus carduaceus*.

Acanthus ebracteatus Vahl, Symb. bot. 2: 75, t. 40. 1791; C.B. Clarke in Hook. f., Fl. Brit. India 4: 481. 1884.
Andaman Islands.

Acanthus ilicifolius L., Sp. pl. 639. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 4: 481. 1884.
Dilivaria ilicifolia (L.) Juss., Gen. pl. 103. 1789; Wight, Icon. pl. Ind. orient. t. 459. 1841.
Andaman & Nicobar Islands, E & W sea coast, W Bengal.

Acanthus leucostachyus Wall. ex Nees in Wall., Pl. asiat. rar. 3: 98. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 480. 1884; N.P. Balakr., Fl. Jowai 2: 351. 1983.
NE India.

Acanthus mollis L., Sp. pl. 639. 1753; Kumari in A.N. Henry, Kumari & Chithra (Eds.), Fl. Tamilnadu anal. 2: 138. 1987.
Cultivated (Tamilnadu).

Acanthus volubilis Wall., Pl. asiat. rar. 2: 56. 1831; C.B. Clarke in Hook.f., Fl. Brit. India 4: 481. 1884.
Andaman & Nicobar Islands, E & NE India.

ANDROGRAPHIS Wall. ex Nees in Wall., Pl. asiat. rar. 3: 77, 116. 1832.
NEESIELLA Sreem. in Phytologia 15: 270. 1967 non Schltdl., 1893.
INDONEESIELLA Sreem. in Phytologia 16: 466. 1968.
ANDROGRAPHIS subg. INDONEESIELLA (Sreem.) L.H. Cramer in Kew Bull. 51: 555. 1996.

Andrographis affinis Nees in Wall., Pl. asiat. rar. 3: 116. 1832; Gamble, Fl. Madras 2: 736. 1967 (Repr.).
Andrographis neesiana Wight var. *affinis* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884.
SW Ghats (Karnataka,Tamilnadu).

Andrographis alata (Vahl) Nees in DC., Prodr. (Ed. A. DC.) 11: 516. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 502. 1884.
Justicia alata Vahl, Enum. pl. 1: 139. 1804.
SW Ghats (Karnataka,Tamilnadu).

Andrographis atropurpurea (Dennst.) Alston ex Mabb. in Taxon 26: 539. 1977.
Justicia atropurpurea Dennst., Schlüssel Hortus malab. 12, 22, 35. 1818 & in Fortsetz. Allg. Teutsch. Gart.-Mag. 3: 31, 40, 83. 1818.
Andrographis wightiana Arn. ex Nees in DC., Prodr. (Ed. A. DC.) 11: 517. 1847 nom. illeg. (incl. type of *Justicia atropurpurea* Dennst., 1818); C.B. Clarke in Hook.f., Fl. Brit. India 4: 503. 1884.
SW Ghats.

Andrographis beddomei C.B. Clarke in Hook.f., Fl. Brit. India 4: 506. 1884; G.Babu, Vijaya Sankar, K. Ravik. & Ved in J. Econ. Taxon. Bot. 30: 390. 2006.
Andhra Pradesh, Karnataka.

Andrographis ceylanica Nees in Companion Bot. Mag. 2: 313. 1836 & in DC., Prodr. (Ed. A. DC.) 11: 518. 1847; Manilal & Sivar., Fl. Calicut 214. 1982; J.R.I. Wood in Edinburgh J. Bot. 51: 115. 1994.
Andrographis macrobotrys Nees in DC., Prodr. (Ed. A. DC.) 11: 516. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 503. 1884.
Andrographis macrobotrys var. *parvifolia* C.B. Clarke in Hook.f., Fl. Brit. India 4: 503. 1884.
S India.

Andrographis chendurunii E. S. S. Kumar, A.E.S. Khan & Seema in Nord. J. Bot. 22: 683, f. A-H. 2004.
SW Ghats (Kerala).

Andrographis echioides (L.) Nees in Wall., Pl. asiat. rar. 3: 117. 1832; Wight, Icon. pl. Ind. orient. t. 467. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 505. 1884; L.H. Cramer in Kew Bull. 51: 555. 1996.
Justicia echioides L., Sp. pl. 16. 1753.
Neesiella echioides (L.) Sreem. in Phytologia 15: 271. 1967.
Indoneesiella echioides (L.) Sreem. in Phytologia 16: 466. 1968; Nicolson, Suresh & Manilal in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 40. 1988.
Erianthera echioides (L.) M. R. Almeida, Fl. Maharashtra 4A: 40. 2003.
Throughout Tropical India.
Note: *Erianthera* Nees, 1832 is listed in E. R. Farr, Leuss. & Stafleu, Index nom. gen. (pl.) 2: 634. 1979. However, Brummitt, Vasc. pl. fam. & gen. 1992 and Mabb., Plant-book, 1998, 2nd ed. have not recognised this genus.

Andrographis elongata (Vahl) T. Anderson in J. Linn. Soc., Bot. 9: 502. 1867; C.B. Clarke in Hook.f., Fl. Brit India 4: 502. 1884.
Justicia elongata Vahl, Enum. pl. 1: 130. 1804.
E India, SW Ghats (Karnataka, Tamilnadu).

Andrographis explicata (C.B. Clarke) Gamble, Fl. Madras 1049. 1924 (2: 736. 1967, Repr.).
Andrographis viscosula Nees var. *explicata* C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884.
SW Ghats.

Andrographis glandulosa Nees in Wall., Pl. asiat. rar. 3: 115. 1832 & in DC., Prodr. (Ed. A. DC.) 11: 518. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 505. 1884.
S India.

Andrographis lawsonii Gamble in Bull. Misc. Inform. 1923: 375. 1923 & Fl. Madras 1050. 1924 (2: 736. 1967, Repr.).
SW Ghats (Karnataka, Tamilnadu).

Andrographis laxiflora (Blume) Lindau ex Hochr. in Candollea 5: 233. 1934; Sreem. in Bull. Bot. Surv. India 11: 183. 1969; B. Hansen in Nord. J. Bot. 5: 353. 1985.
Justicia laxiflora Blume, Bijdr. 789. 1826.
Andrographis tenuiflora T. Anderson in J. Linn. Soc., Bot. 9: 502. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 502. 1884.
Andaman Islands, NE India.

Andrographis lineata Wall. ex Nees in Wall., Pl. asiat. rar. 3: 116. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884.

var. **lineata**.
SW Ghats (Karnataka, Tamilnadu).

var. **lawii** C.B. Clarke in Hook.f., Fl. Brit. India 4: 505. 1884.
SW Ghats (Karnataka).

Andrographis lobelioides Wight, Ill. Ind. Bot. t. 164 b, f. 11. 1850 & Icon. pl. Ind. orient. t. 1557. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 505. 1884.
var. lobelioides.
SW Ghats (Nilgiris).

var. **composita** C.B. Clarke in Hook.f., Fl. Brit. India 4: 505. 1884.
SW Ghats (Tamilnadu).

Andrographis longipedunculata (Sreem.) L.H. Cramer in Kew Bull. 51: 555. 1996.
Neesiella longipedunculata Sreem. in Phytologia 15: 271. 1967.
Indoneesiella longipedunculata (Sreem.) Sreem. in Phytologia 16: 466. 1968; K.M. Matthew, Fl. Tamilnadu Carnatic 3: 1182. 1983.
Erianthera longipedunculata (Sreem.) M.R. Almeida, Fl. Maharashtra 4A: 41. 2003.
Peninsular India.

Andrographis nallamalayana J.L. Ellis in Bull. Bot. Surv. India 8: 362. (1966) 1967.
E Ghats (Andhra Pradesh).

Andrographis neesiana Wight, Icon. pl. Ind. orient. t. 1561. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884.
SW Ghats.

Andrographis ovata (T. Anderson ex Bedd.) C.B. Clarke in Hook.f., Fl. Brit. India 4: 502. 1884.
Gymnostachyum ovatum T. Anderson ex Bedd., Icon. pl. Ind. or. t. 250. 1874.
E NE & S India.

Andrographis paniculata (Burm.f.) Wall. ex Nees in Wall., Pl. asiat. rar. 3: 116. 1832; Wight, Icon. pl. Ind. orient. t. 518. 1842; C.B. Clarke in Hook.f., Fl. Brit. India 4: 501. 1884.
Justicia paniculata Burm.f., Fl. indica 9. 1768.
Andrographis subspathulata C.B. Clarke in Hook.f., Fl. Brit. India 4: 502. 1884.
Throughout India.

Andrographis producta (C.B. Clarke) Gamble, Fl. Madras 1049. 1924 (2: 735. 1967, Repr.).
Andrographis neesiana var. *producta* C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884; Kumari in A.N. Henry et al. (Eds.) Fl. Tamilnadu anal. 2: 140. 1987.
SW Ghats.

Andrographis rothii C.B. Clarke in Hook.f., Fl. Brit. India 4: 506. 1884.
S India.

Andrographis rotundifolia (Sreem.) Sreem. in Phytologia 37: 416. 1977.
Andrographis neesiana var. *rotundifolia* Sreem. in Bull. Bot. Surv. India 9: 91. 1966.
Tamilnadu.

Andrographis serpyllifolia (Rottler ex Vahl) Wight, Icon. pl. Ind. orient. t. 517. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 506. 1884.
Justicia serpyllifolia Rottler ex Vahl, Enum. pl. 1: 169. 1804.
S India.

Andrographis stellulata C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884.
SW Ghats (Nilgiris).

Andrographis stenophylla C.B. Clarke in Hook.f., Fl. Brit. India 4: 503. 1884.
Tamilnadu.

Andrographis viscosula Nees in Wall., Pl. asiat. rar. 3: 116. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 504. 1884.
SW Ghats (Karnataka, Tamilnadu).

APHELANDRA R. Br., Prodr. 475. 1810.

Aphelandra cristata (Jacq.) R. Br., Prodr. 475. 1810. in obs.; Haines, Bot. Bihar Orissa 2: 723. 1961 (Repr.).
Justicia cristata Jacq., Pl. hort. schoenbr. 3: 38. 1798.
E India.

Aphelandra deppeana Schltdl. & Cham. in Linnaea 5: 96. 1830; Kumari in A.N. Henry et al. (Eds.) Fl. Tamilnadu anal. 2: 141. 1987.
Aphelandra pectinata Willd. ex Nees in DC., Prodr. (Ed. A.DC.) 11: 297. 1847; Haines, Bot. Bihar Orissa 2: 722. 1961 (Repr.).
E India (Cultivated), Tamilnadu

Aphelandra tetragona (Vahl) Nees in DC., Prodr. (Ed. A. DC.) 11: 295. 1847.
Justicia tetragona Vahl, Symb. bot. 3: 5. 1794; Haines, Bot. Bihar Orissa 2: 723. 1961 (Repr.).
E India (Cultivated).

ASYSTASIA Blume, Bijdr. 796. 1826.

Asystasia chelonoides Nees in Wall., Pl. asiat. rar. 3: 89. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 493. 1884.
var. **chelonoides.**
SW Chats.

var. **quadrangularis** C.B. Clarke in Hook.f., Fl. Brit. India 4: 494. 1884.
SW Chats.

Asystasia crispata Benth. in Linnaea 24: 647. 1852; C.B. Clarke in Hook.f., Fl. Brit. India 4: 494. 1884.
Asystasia coromandeliana Wight, Icon. pl. Ind. orient. t. 1506. 1850 non Nees, 1832.
SW Chats.

Asystasia dalzelliana Santapau in Kew Bull. 1948: 276. 1948 & in Bot. Mem. Univ. Bombay 2: 68. 1952 & in Rec. Bot. Surv. India 16 (1): 229. 1953.
Asystasia coromandeliana Hook. in Curtis, Bot. Mag. (Ed. Hook.) 72: t. 4248. 1846 non Wight ex Nees, 1832.
Asystasia violacea Dalzell ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 494. 1884 non Dalzell, 1850.
W Ghats.

Asystasia gangetica (L.) T. Anderson in Thwaites, Enum. pl. zeyl. 235. 1860; Prain, Bengal pl. 2: 606. 1963 (Repr.).
Justicia gangetica L., Cent. pl. II : 3. 1756.
Asystasia coromandeliana Wight ex Nees in Wall., Pl. asiat. rar. 3: 89. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 493. 1884.
Andaman Islands, Peninsular India.

Asystasia indica H.J. Chowdhery & Av. Bhattacharjee in Indian J. Forest. 29: 211, pl. 3. 2006.
W Bengal (Indian Botanic Garden).

Asystasia macrocarpa Nees in Wall., Pl. asiat. rar. 3: 89. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 495. 1884.
Mackaya macrocarpa (Nees) Das in Kanjilal et al., Fl. Assam 3: 447. 1939.
E & NE India, Subtropical Himalayas.

Asystasia mysurensis (Roth) T. Anderson in J. Linn. Soc., Bot. 9: 524. 1867; M. Varghese, C.L. Shah & Inamdar in J. Econ. Taxon. Bot. 14: 643. 1990.
Ruellia mysurensis Roth, Nov. pl. sp. 303. 1821.
Asystasia lawiana Dalzell in Hooker's J. Bot. Kew Gard. Misc. 4: 344. 1852; C.B. Clarke in Hook.f., Fl. Brit. India 4: 496. 1884.
Peninsular India.

Asystasia pusilla C.B. Clarke in J. Linn. Soc., Bot. 25: 55. 1887; C.E.C. Fisch. in Rec. Bot. Surv. India 12: 119. 1938.
NE India.

Asystasia travancorica Bedd., Icon. pl. Ind. or. t. 178. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 494. 1884.
SW Ghats.

ASYSTASIELLA Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b: 326. 1895.

Asystasiella atroviridis (T. Anderson) Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b: 326. 1895.
Asystasia atroviridis T. Anderson in J. Linn. Soc., Bot. 9: 526. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 495. 1884.
Mackaya atroviridis (T. Anderson) Das in Kanjilal et al., Fl. Assam 3: 448. 1939.
Meghalaya.

Asystasiella neesiana (Wall.) Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b: 326. 1895.
Ruellia neesiana Wall., Pl. asiat. rar. 1: 73, t. 83. 1830.
Asystasia neesiana (Wall.) Nees in Wall., Pl. asiat. rar. 3: 89. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 496. 1884.
Mackaya neesiana (Wall.) Das in Kanjilal et al., Fl. Assam 3: 447. 1939.
NE India.

BARLERIA L., Sp. pl. 636. 1753.

Barleria acanthoides Vahl, Symb. bot. 1: 47. 1790; C.B. Clarke in Hook.f., Fl. Brit. India 4: 484. 1884.
N to W India, Upper Gangetic Plains.

Barleria acuminata Wight ex Nees in Wall., Pl. asiat. rar. 3: 93. 1832; Wight, Icon. pl. Ind. orient. t. 450. 1841; Gamble, Fl. Madras 2: 742. 1967 (Repr.).
Barleria tomentosa Roth var. *acuminata* (Wight ex Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 483. 1884
SW Ghats.

Barleria buxifolia L., Sp. pl. 636. 1753; Wight, Icon. pl. Ind. orient. t. 870. 1845; C.B. Clarke in Hook.f., Fl. Brit. India 4: 483. 1884.
Peninsular India, Punjab.

Barleria courtallica Nees in DC., Prodr. (Ed. A. DC.) 11: 226. 1847; Wight, Icon. pl. Ind. orient. t. 1529. 1850, C.B. Clarke in Hook.f., Fl. Brit. India 4: 489. 1884.
Peninsular India.

Barleria cristata L., Sp. pl. 636. 1753; Wight, Icon. pl. Ind. orient. t. 453. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 488. 1884.
var. **cristata**.
Throughout India.

var. **albida** Haines, Bot. Bihar Orissa 683. 1922 (2: 716. 1961, Repr.).
E India.

var. **dichotoma** (Roxb.) Prain, Bengal pl. 812. 1903 (2: 606. 1963, Repr.); Bhandari, Fl. ind. des. 297. 1978.
Barleria dichotoma Roxb., Fl. ind. (Ed. Carey) 3: 39. 1832; Babu, Herb. fl. Dehra Dun 379. 1977.
E Himalaya, Peninsular India, Upper Gangetic Plains.

Barleria cuspidata B. Heyne ex Nees in Wall., Pl. asiat. rar. 3: 93. 1832; Wight, Icon. pl. Ind. orient. t. 451. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 483. 1884.
E & Peninsular India.

Barleria gibsonii Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 339. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 487. 1884.
E & Peninsular India.

Barleria gibsonioides Blatt. in J. Bombay Nat. Hist. Soc. 32: 733. 1928.
W Ghats (Maharashtra, Tamilnadu).

Barleria grandiflora Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 339. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 488. 1884.
Barleria grandis sensu M.R.Almeida, Fl. Maharashtra 4A:13. 2003 non Hochst. ex Nees, 1847.
Karnataka, Maharashtra.
Note: M. R. Almeida (op. cit.) gives *Barleria grandis* Hochst. ex Nees as the correct name for this species which is incorrect as *Barleria grandis* is the accepted name for the species viz., *Barleria grandiflora* R. Br. from Ethiopia which is a nom. nud.

Barleria hochstetteri Nees in DC., Prodr. (Ed. A. DC.) 11: 231. 1847; Wight, Icon. pl. Ind. orient. t. 1528. 1850; C. B. Clarke in Hook. f., Fl. Brit. India 4: 483. 1884; Bhandari, Fl. ind. des. 298. 1978.
NW Rajasthan.

Barleria involucrata Nees in Wall., Pl. asiat. rar. 3: 92. 1832; Wight, Ill. Ind. Bot. t. 164. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 485. 1884.
var. **involucrata**.
S India.

var. **elata** (Dalzell) C.B. Clarke in Hook.f., Fl. Brit. India 4: 486. 1884.
Barleria elata Dalzell in Hooker's J. Bot. Kew Gard. Misc. 3: 227. 1851.
W Ghats.

Barleria lawii T. Anderson in J. Linn. Soc., Bot. 9: 492. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 486. 1884.
W Ghats.

Barleria longiflora L.f., Suppl. pl. 239. 1782; C.B. Clarke in Hook.f., Fl. Brit. India 4: 485. 1884.
E & Peninsular India.

Barleria lupulina Lindl. in Edwards' Bot. Reg. (Ed. Lindl.) 18: t. 1483. 1833; C.B. Clarke in Hook. f., Fl. Brit. India 4: 482. 1884; Haines, Bot. Bihar Orissa 2: 715. 1967 (Repr.).
E India (Cultivated, also as an escape).

Barleria montana Nees in Wall., Pl. asiat. rar. 3: 92. 1832; Bedd., Icon. pl. Ind. or. t. 257. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 487. 1884.
E & Peninsular India.

Barleria morrisiana E. Barnes & C.E.C. Fisch. in Bull. Misc. Inform. 1939: 659. 1940.
S India.

Barleria mysorensis Roth, Nov. pl. sp. 313. 1821; C.B. Clarke in Hook.f., Fl. Brit. India 4: 484. 1884.
S India.

Barleria nitida Nees in Wall., Pl. asiat. rar. 3: 91. 1832; Wight, Icon. pl. Ind. orient. t. 454. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 490. 1884.
SW Ghats (Tamilnadu).

Barleria noctiflora L.f., Suppl. pl. 290. 1782; C.B. Clarke in Hook.f., Fl. Brit. India 4: 484. 1884.
SW Ghats (Karnataka, Tamilnadu).

Barleria paniculata Wall. ex Nees in Wall., Pl. asiat. rar. 3: 92. 1832; Gamble, Fl. Madras 2: 742. 1967 (Repr.).
Barleria tomentosa sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 485. 1884 p.p. non Roth, 1821.
S India.

Barleria pilosa B. Heyne ex Nees in Wall., Pl. asiat. rar. 3: 93. 1832 & in DC., Prodr. (Ed. A. DC.) 11: 234. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 486. 1884.
Tamilnadu.

Barleria prattensis Santapau in Kew Bull. 1948: 487. 1949.
Peninsular India, Rajasthan.

Barleria prionitis L., Sp. pl. 636. 1753; Wight, Icon. pl. Ind. orient. t. 432. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 482. 1884; J.R.I. Wood, Hillc. & Brummitt in Kew Bull. 38: 436. 1983.
ssp. **prionitis**.
var. **prionitis**.
Throughout tropical India.

var. **diacantha** Blatt. & Hallb. in J. Bombay Nat. Hist. Soc. 26: 811. 1919.
Rajasthan.

ssp. **pubiflora** (Benth. ex Hohen.) Brummitt & J.R.I. Wood in Kew Bull. 38: 436. 1983.
Barleria pubiflora Benth. ex Hohen. in Flora 32: 358. 1849.
Barleria prionitis auct. non L., 1753; C.B. Clarke in Hook.f., Fl. Brit. India 4: 482. 1884 p.p.
Coastal & subcoastal areas of W India from Mangalore to Saurashtra, Punjab, foot hills of Himalayas.

Barleria sepalosa C.B. Clarke in Hook.f., Fl. Brit. India 4: 487. 1884.
Maharashtra.

Barleria stocksii T. Anderson in J. Linn. Soc., Bot. 9: 493. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 489. 1884.
S India.

Barleria strigosa Willd., Sp. pl. 3: 379. 1800 emend. S.K. Malhotra & Moorthy in Indian Forester 107: 449. 1981; C.B. Clarke in Hook.f., Fl. Brit. India 4: 489. 1884.
var. **strigosa**.
Throughout India.

var. **polystachya** (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 490. 1884.
Barleria polystachya Nees in DC., Prodr. (Ed. A. DC.) 11: 226. 1847.
Maharashtra.

Barleria terminalis Nees in DC., Prodr. (Ed. A. DC.) 11: 225. 1847 emend. S.K. Malhotra & Moorthy in Indian Forester 107: 449. 1981.
Barleria strigosa var. *terminalis* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 490. 1884.
Peninsular India.

Barleria tomentosa Roth, Nov. pl. sp. 314. 1821; C.B. Clarke in Hook.f., Fl. Brit. India 4: 485. 1884.
var. **tomentosa**.
S India.

var. **glandulosa** C.E.C.Fisch. in Rec. Bot. Surv. India 9: 135. 1921; Kumari in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 143. 1987.
Tamilnadu.

Barleria vestita T. Anderson in Thwaites, Enum. pl. zeyl. 1: 230. 1860; C.B. Clarke in Hook.f., Fl. Brit. India 4: 486. 1884; Sundararaj in J. Bombay Nat. Hist. Soc. 53: 524. 1956.
Tamilnadu.

BLEPHARIS Juss., Gen. pl. 103. 1789.

Blepharis integrifolia (L.f.) E. Mey. ex Schinz in Vierteljahrsschr. Naturf. Ges. Zürich 60: 416. 1915; Vollesen, *Blepharis* taxon. rev. 173. 2000.
Acanthus integrifolius L. f., Suppl. pl. 294. 1782.
Acanthus repens Vahl, Symb. bot. 2: 76. 1791.
Blepharis molluginifolia Pers., Syn. pl. 2: 180. 1807; C.B. Clarke in Hook. f., Fl. Brit. India 4: 479. 1884.
Acanthus molluginifolius (Pers.) Poir. in Lam., Encycl. suppl. 1: 90. 1810.
Blepharis repens (Vahl) Roth, Nov. pl. sp. 321. 1821.
Blepharis lawsonii G.S. Giri & R. N. Banerjee in Blumea 28: 363. 1983 p.p. quoad T.A. Rao 8115.
Throughout tropical India.

Blepharis lawsonii G.S. Giri & R.N. Banerjee in Blumea 28: 363, f.1. 1983.
Coasts of Kerala & Tamilnadu.

Blepharis maderaspatensis (L.) B. Heyne ex Roth, Nov. pl. sp. 320. 1821; Maheshw., Fl. Delhi 266. 1963; Napper in Kew Bull. 24: 323. 1970.
Acanthus maderaspatensis L., Sp. pl. 639. 1753.
Blepharis boerhaviifolia Pers., Syn. pl. 2: 180. 1806 ('boerhaaviaefolia'); Wight, Icon. pl. Ind. orient. t. 458. 1841 & Ill. Ind. Bot. t. 164. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 478. 1884.
Blepharis boerhaviifolia var. *maderaspatensis* (L.) Nees in Wall., Pl. asiat. rar. 3: 97. 1832.
Throughout India.

Blepharis scindica Stocks ex T. Anderson in J. Proc. Linn. Soc., Bot. 7: 36. 1864; Vollesen, *Blepharis*, taxon. rev. 87, f. 11, M-S. 2000.
Acanthodium grossum Wight, Icon. pl. Ind. orient. tt. 1535 & 1536. 1850 non Nees, 1847.
Blepharis edulis sensu T. Anderson in J. Linn. Soc., Bot. 9: 500. 1867 p.p., C.B. Clarke in Hook. f., Fl. Brit. India 4: 479. 1884 p.p. non (Forssk.) Pers., 1806.
Blepharis linariifolia sensu C.B. Clarke in Oliv., Fl. trop. Afr. (Ed. Dyer) 5: 100. 1899 p.p. non Pers., 1807; B.V. Shetty & V. Singh, Fl. Rajasthan 2: 636. 1991.
N & W India, Upper Gangetic Plains.
Note: *Blepharis sindica* T. Anderson in J. Linn. Soc., Bot. 9: 500. 1867*; C.B. Clarke in Hook. f., Fl. Brit. India 4: 479. 1884.
* This name is due to an error. *See* International Plant Names Index (hereafter cited as IPNI).

CALACANTHUS T. Anderson ex Benth. in Benth. & Hook.f., Gen. pl. 2: 1088. 1876.

Calacanthus grandiflorus (Dalzell) Radlk. in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München 13: 279. 1883; Santapau in Bot. Mem. Univ. Bombay 2: 50. 1952.

Lepidagathis grandiflora Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 138. 1850.
Calacanthus dalzelliana T. Anderson ex Benth. in Benth. & Hook.f., Gen. pl. 2: 1088.1876; C. B. Clarke in Hook. f., Fl. Brit. India 4: 478. 1884.
Peninsular India.

CLARKEASIA J.R.I. Wood in Edinburgh J. Bot. 51: 187. 1994.
ECHINACANTHUS sensu C. B. Clarke in Hook. f., Fl. Brit. India 4: 414. 1884 p.p. non Nees, 1832.

Clarkeasia parviflora (T. Anderson) J. R. I. Wood in Edinburgh J. Bot. 51: 189. 1994.
Echinacanthus parviflorus T. Anderson in J. Linn. Soc., Bot. 9: 459. 1867; C. B. Clarke in Hook. f., Fl. Brit. India 4: 415. 1884.
Strobilanthes violifolia T. Anderson in J. Linn. Soc., Bot. 9: 485. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 477. 1884.
Echinacanthus andersoni C.B. Clarke in Hook.f., Fl. Brit. India 4: 415. 1884 .
Echinacanthus andersoni var. *viscosus* C.B. Clarke in Hook.f., Fl. Brit. India 4: 415. 1884.
Echinacanthus longistylus C.B. Clarke in Hook.f., Fl. Brit. India 4: 415. 1884.
Echinacanthus pumilio C.B. Clarke in Hook.f., Fl. Brit. India 4. 415. 1884.
Pteracanthus violifolius (T. Anderson) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
var. **parviflora.**
C & E Himalaya, NE India.

var. **albescens** J.R.I. Wood in Edinburgh J. Bot. 51: 191. 1994.
E India, Himalayas.

CLINACANTHUS Nees in DC., Prodr. (Ed. A.DC.) 11: 511. 1847.

Clinacanthus nutans (Burm.f.) Lindau in Bot. Jahrb. 18: 63. 1894; Murugan & Gopalan in J. Econ. Taxon. Bot. 30: 291. 2006.
Justicia nutans Burm.f., Fl. indica 10, t.5, f.1. 1768.
Clinacanthus burmannii Nees in DC., Prodr. (Ed. A.DC.) 11: 511. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 524. 1885*.
Cultivated in Tirunelveli hills, Tamilnadu.
Note: *It has been reported from Malacca by C.B. Clarke, op. cit.

CODONACANTHUS Nees in DC., Prodr. (Ed. A.DC.) 11: 103. 1847.

Codonacanthus pauciflorus Nees in DC., Prodr. (Ed. A. DC.) 11: 103. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 500. 1884.
E Himalaya, NE India.

CROSSANDRA Salisb., Parad. lond. t. 12. 1806.

Crossandra infundibuliformis (L.) Nees in Wall., Pl. asiat. rar. 3: 98. 1832; Santapau in Bot. Mem. Univ. Bombay 2: 55. 1952.
Justicia infundibuliformis L., Syst. nat. ed. 10. 2: 850. 1759.
Crossandra undulaefolia Salisb., Parad. lond. t. 12. 1806; Sims in Curtis, Bot. Mag. (Ed. Sims) 47: t. 2186. 1820; C.B. Clarke in Hook. f., Fl. Brit. India 4: 492. 1884.
ssp. **infundibuliformis.**
Throughout India.

ssp. **axillaris** (Nees) L.H. Cramer in Kew Bull. 51: 554. 1996.
Crossandra axillaris Nees in Wall., Pl. asiat. rar. 3: 98. 1832; DC., Prodr. (Ed. A. DC.) 11: 281. 1847; Wight, Icon. pl. Ind. orient. t. 460. 1841 & Ill. Ind. Bot. t. 164. 1850.

Crossandra undulaefolia sensu C. B. Clarke in Hook. f., Fl. Brit. India 4: 492. 1884 p.p. non Salisb., 1820.
Crossandra infundibuliformis var. *axillaris* (Nees) Trimen, Handb. Fl. Ceylon 3: 323. 1895.
S India.

CYNAROSPERMUM Vollesen in Kew Bull. 54: 171. 1999.

Cynarospermum asperrimum (Nees) Vollesen in Kew Bull. 54: 172, f. 1. 1999.
Blepharis asperrima Nees in DC., Prodr. (Ed. A. DC.) 11: 267. 1847; Wight, Icon. pl. Ind. orient. t. 1534. 1850; C. B. Clarke in Hook. f., Fl. Brit. India 4: 478. 1884.
Peninsular India.

DICLIPTERA Juss. in Ann. Mus. Natl. Hist. Nat. 9: 267. 1807, nom. cons.
PERISTROPHE Nees in Wall., Pl. asiat. rar. 3: 77, 112. 1832.

Note: I. Darbyshire & K. Vollesen in Kew Bull. 62: 119. 2007 conclude that the separation of *Peristrophe* from *Dicliptera* was not supportable and that all taxa currently accepted within *Peristrophe* should therefore be transferred to *Dicliptera*. We follow their view.

Dicliptera abuensis Blatt. in J. & Proc. Asiat. Soc. Bengal 26: 347. (1930) 1931.
Rajasthan.

Dicliptera babui Karthik. & Moorthy nom. nov.
Justicia baphica Spreng., Neue Entd. 3: 82. 1822.
Peristrophe baphica (Spreng.) Bremek. in Nova Guinea 8: 149. 1957 & in Dansk. Bot. Ark. 20: 80. 1961 non *Dicliptera baphica* Nees, 1847; K.S. Sriniv. & V.S. Agarwal in Bull. Bot. Surv. India 5: 84. 1963.
Peristrophe tinctoria sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 556. 1885 p.p. non Nees, 1832.
Cultivated.
Note: The specific epithet commemorates Dr. C.R. Babu, erstwhile Senior Research Fellow, Botanical Survey of India and former Professor of Botany, Delhi University.

Dicliptera beddomei C.B. Clarke in Hook.f., Fl. Brit. India 4: 551. 1885.
E Ghats (Andhra Pradesh).

Dicliptera bupleuroides Nees in Wall., Pl. asiat. rar. 3: 111. 1832; Gamble, Fl. Madras 2: 752. 1967 (Repr.).
Dicliptera roxburghiana var. *bupleuroides* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 554. 1885.
Throughout India.
Note: *Dicliptera bupleuroides* var. *roxburghiana* Panigrahi & A.K. Dubey in Taxon 32: 288. 1983, nom. nov. inval., varietal epithet homotypic with specific name – cf. IPNI.

Dicliptera cuneata Nees in Wall., Pl. asiat. rar. 3: 111. 1832 & in DC., Prodr. (Ed. A.DC.) 11: 481. 1847; Wight, Icon. pl. Ind. orient. t. 1552. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 552. 1885.
Peninsular India.

Dicliptera fera (C.B. Clarke) Karthik. & Moorthy comb. nov.
Peristrophe fera C.B. Clarke in Hook.f., Fl. Brit. India 4: 556. 1885.
E Himalaya, NE India.

Dicliptera foetida (Forssk.) Blatt. in Rec. Bot. Surv. India 8: 361. 1921; J.R.I. Wood et al. in Kew Bull. 38: 453. 1983.
Justicia foetida Forssk., Fl. aegypt.- arab. 5. 1775.
Dicliptera bivalvis Nees in DC., Prodr. (Ed. A.DC.) 11: 475. 1847; Wight, Icon. pl. Ind. orient. t. 1551. 1850.
Dicliptera zeylanica Nees in DC., Prodr. (Ed. A.DC.) 11: 474. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 552. 1885.

var. **foetida.**
Peninsular India.

var. **kanarana** M. R. Almeida, Fl. Maharashtra 4A: 29. 2003.
NW Ghats (Karnataka, Maharashtra).

Dicliptera ghatica Santapau in Bot. Mem. Univ. Bombay 2: 80. 1952.
Dicliptera foetida var. *ghatica* (Santapau) M. R. Almeida, Fl. Maharashtra 4A: 28. 2003.
NW Ghats (Maharashtra).

Dicliptera heterostegia Nees in DC., Prodr. (Ed. A. DC.) 11: 478. 1847; K. Balkwill, F.G. Norris & M. Balkwill in Kew Bull. 51: 24. 1996.
Maharashtra.

Dicliptera lanceolaria (Roxb.) Karthik. & Moorthy comb. nov.
Justicia lanceolaria Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 121. 1820.
Peristrophe lanceolaria (Roxb.) Nees in Wall., Pl. asiat. rar. 3: 114. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 555. 1885.
E India.

Dicliptera leumotis Dalzell ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 553. 1885.
Peninsular India.

Note: K. Balkwill et al. in Kew Bull. 51: 27. 1996 report *Dicliptera burmanni* Nees – which was treated as a synonym under the above species by C.B. Clarke op. cit. - from India; this species occur in Java and do not occur in India (pers. comm.).

Dicliptera longitolia (King & Prain) Karthik. & Moorthy comb. nov.
Peristrophe longifolia King & Prain in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 69: 171. 1900.
Nagaland.

Dicliptera magnibracteata Collett & Hemsl. in J. Linn. Soc., Bot. 28:108. 1890.
Peristrophe magnibracteata (Collett & Hemsl.) Z.P. Hao, Y.F. Deng & N.H. Xia in Nord. J. Bot. 25 : 12. 2007.
Assam.

Dicliptera manilalii Karthik. & Moorthy nom. nov.
Peristrophe montana Nees in Wall., Pl. asiat. rar. 3: 113. 1832 non *Dicliptera montana* Lindau, 1905; C.B. Clarke in Hook.f., Fl. Brit. India 4: 556. 1885.
Peninsular India.
Note: The specific epithet is in honour of Prof. K.S. Manilal, Retd. Professor of Botany of Calicut University.

Dicliptera nasikensis Lakshmin. & B.D. Sharma in J. Econ. Taxon. Bot. 7: 481, t. 1, ff. 1-9. 1986.
NW Ghats (Maharashtra).

Dicliptera paniculata (Forssk.) I. Darbysh. apud I. Darbysh. & Vollesen in Kew Bull. 62: 122. 2007.
Dianthera paniculata Forssk., Fl. aegypt.-arab. 7. 1775.
Dianthera bicalyculata Retz. in Kongl. Vetensk. Acad. Handl. 1775: 297. 1776.
Dianthera malabarica L.f., Suppl. pl. 85. 1782 nom. illegit.
Peristrophe bicalyculata (Retz.) Nees in Wall., Pl. asiat. rar. 3: 113. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 554. 1885.
Peristrophe paniculata (Forssk.) Brummitt in Kew Bull. 38: 451. 1983.

var **paniculata.**
Subtropical & Tropical India.

var. **rivinoides** (C.B.Clarke) Karthik. & Moorthy comb. nov.
Peristrophe bicalyculata var. *rivinoides* C.B. Clarke in Hook.f., Fl. Brit. India 4: 555. 1885.
S India.

var. **subaequibracteata** (Bennet) Karthik. & Moorthy comb. nov.
Peristrophe bicalyculata var. *subaequibracteata* Bennet in J. Bombay Nat. Hist. Soc. 66: 229. 1969.
Peristrophe paniculata var. *subaequibracteata* (Bennet) Bennet in J. Econ. Taxon. Bot. 5: 972. 1984.
W Bengal.

Dicliptera parvibracteata Nees in Wall., Pl. asiat. rar. 3: 111. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 551. 1885.
Andhra Pradesh.

Dicliptera raui Karthik. & Moorthy nom. nov.
Justicia speciosa Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 122. 1820.
Peristrophe speciosa (Roxb.) Nees in Wall., Pl. asiat. rar. 3: 113. 1832 non *Dicliptera speciosa* Nees & Mart., 1823 nec Kurz, 1873; C.B. Clarke in Hook.f., Fl. Brit. India 4: 556. 1885.
Subtropical Himalayas, Upper Gangetic Plains.
Note: The specific epithet honours Dr. M.A. Rau, former Deputy Director, Botanical Survey of India for his contributions to the studies on Himalayan botany.

Dicliptera riparia Nees in Wall., Pl. asiat. rar. 3: 112. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 553. 1885; H. Hara in H. Hara et al., Enum. fl. pl. Nepal 3: 139. 1982.
Dicliptera roxburghiana var. *riparia* (Nees) Benoist in Lecomte, Fl. Indo-Chine 4: 768. 1935.
C Himalaya.

Dicliptera roxburghiana Nees in Wall., Pl. asiat. rar. 3: 111. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 553. 1885.
var. **roxburghiana.**
Himalayas, Plains of E N & NE India, Upper Gangetic Plains.

var. **linearis** Kurz; C. E. C. Fisch. in Rec. Bot. Surv. India 12: 120. 1938.
NE India.

Dicliptera sebastinei Karthik. & Moorthy nom. nov.
Peristrophe acuminata Nees in Wall., Pl. asiat. rar. 3: 113. 1832 non *Dicliptera acuminata* (Ruiz & Pav.) Juss., 1807; C.B. Clarke in Hook.f., Fl. Brit. India 4: 555. 1885; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 138. 1986.
var. **sebastinei.**
Andaman & Nicobar Islands.
Note: The specific epithet commemorates the memory of Dr. K.M. Sebastine, former Regional Botanist, Botanical Survey of India, Coimbatore who initiated S. Karthikeyan in the studies of taxonomic botany; he was the guiding spirit behind his studies on South Indian Grasses.

var. **khasiana** (C.B. Clarke) Karthik. & Moorthy comb. nov.
Peristrophe acuminata var. *khasiana* C.B. Clarke in Hook.f., Fl. Brit. India 4: 555. 1885.
Meghalaya.

Dicliptera sivarajanii Karthik. & Moorthy nom. nov.
Justicia bivalvis L., Amoen. acad. 4: 134. 1759 & Syst. nat. ed. 10. 2: 850. 1759.
Justicia roxburghiana Roem. & Schult., Syst. veg. 1: 140. 1817.
Justicia tinctoria Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 123. 1820 non Lour., 1790.
Peristrophe tinctoria (Roxb.) Nees in Wall., Pl. asiat. rar. 3: 113. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 556. 1885.
Peristrophe bivalvis (L.) Merr., Interpr. Herb. amboin. 476. 1917 nom. conf.

Peristrophe roxburghiana (Koem. & Schult.) Bremek. in Acta Bot. Neerl. 4: 656. 1955 non *Dicliptera roxburghiana* Nees, 1832.
Cultivated.
Note: The specific epithet is in memory of our great friend Prof. V.V. Sivarajan, former Professor of Botany, Calicut University; also we wish to record our love and affection for him since 1966.

Dicliptera spinulosa Hochst. ex K. Balkwill in Kew Bull. 51: 53. 1996.
E N & W India, Upper Gangetic Plains.

Dicliptera undulata (Vahl) Karthik. & Moorthy comb. nov.
Justicia undulata Vahl, Symb. bot. 2: 8. 1791.
Peristrophe undulata (Vahl) Nees in DC., Prodr. (Ed. A.DC.) 11: 496. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 555. 1885.
Kerala, Tamilnadu (Nilgiris) (C.B. Clarke op.cit.).
Note: Gamble, (Fl. Madras) or subsequent workers have not recorded this species; Rama Rao listed *Peristrophe undulata* in his Fl. pl. Travancore 312. 1914.

Dicliptera verticillata (Forssk.) C. Chr. in Dansk. Bot. Ark. 4 (3): 11. 1922; J.R.I. Wood et al. in Kew Bull. 38: 450. 1983.
Dianthera verticillata Forssk., Fl. aegypt.-arab. 9. 1775.
Dicliptera micranthes Nees in Wall., Pl. asiat. rar. 3: 112. 1832; C. B. Clarke in Hook.f., Fl. Brit. India 4: 553. 1885.
E N to Peninsular India, Upper Gangetic Plains.

DYSCHORISTE Nees in Wall., Pl. asiat. rar. 3: 75, 81. 1832.
CALOPHANES D. Don in Sweet, Brit. fl. gard. ser. 2, 2: t. 181. 1833.

Dyschoriste dalzellii (T.Anderson ex Bedd.) Kuntze, Revis. gen. pl. 2: 486. 1891; T. Cooke, Fl. Bombay 2: 438. 1967 (Repr.).
Calophanes dalzellii T. Anderson ex Bedd., Icon. pl. Ind. or. t. 248. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 411. 1884.
W India.

Dyschoriste madurensis (Burm.f.) Kuntze, Revis. gen. pl. 2: 486. 1891; Raizada in Indian Forester 92: 309. 1966.
Justicia madurensis Burm. f., Fl. indica 9, t. 4, f. 3. 1768.
Ruellia littoralis L.f., Suppl. pl. 289. 1782.
Dyschoriste littoralis (L.f.) Nees in Wall., Pl. asiat. rar. 3: 81. 1832; Wight, Icon. pl. Ind. orient. t. 447. 1841; Gamble, Fl. Madras 2: 718. 1967 (Repr.).
Calophanes littoralis (L.f.) T. Anderson in Thwaites, Enum. pl. zeyl. 225. 1860; C.B. Clarke in Hook.f., Fl. Brit. India 4: 410. 1884.
E & S India.

Dyschoriste nagchana (Nees) Bennet in Indian Forester 109: 220. 1983.
Dipteracanthus nagchana Nees in Wall., Pl. asiat. rar. 3: 82. 1832.
Dyschoriste depressa Nees in Wall., Pl. asiat. rar. 3: 81. 1832; T. Cooke, Fl. Bombay 2: 437. 1967 (Repr.).
Calophanes nagchana Nees in DC., Prodr. (Ed. A. DC.) 11: 109. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 410. 1884.
E to Peninsular India.

Dyschoriste vagans (Wight) Kuntze, Revis. gen. pl. 2: 486. 1891; Santapau in Bot. Mem. Univ. Bombay 2: 31. 1952.
Calophanes vagans Wight, Icon. pl. Ind. orient. t. 1526. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 411. 1884.
E to Peninsular India.

ECBOLIUM Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 40: 75. 1875.

Ecbolium ligustrinum (Vahl) Vollesen in Kew Bull. 44: 651. 1989.
Justicia ecbolium L., Sp. pl. 15. 1753; Wight, Icon. pl. Ind. orient. t. 463. 1840 - 43 (prob. 1841).
Justicia ligustrina Vahl, Enum. pl. 1: 118. 1804.
Justicia laetevirens Vahl, Enum. pl. 1: 118. 1804.
Justicia dentata Klein ex Link in Jahrb. Gewächsk. 1 (3): 48. 1820.
Justicia emarginata Nees in DC., Prodr. (Ed. A.DC.) 11: 427. 1847.
Justicia livida Nees in DC., Prodr. (Ed. A. DC.) 11: 427. 1847; Wight, Icon. pl. Ind. orient. t. 1546. 1850.
Justicia ecbolium var. *mollis* Nees in DC., Prodr. (Ed. A.DC.) 11: 427. 1847.
Ecbolium linneanum Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 40: 75. 1875; C.B. Clarke in Hook.f., Fl. Brit. India 4: 544. 1885.
Ecbolium linneanum var. *dentatum* (Klein ex Link) C.B. Clarke in Hook.f., Fl. Brit. India 4: 545. 1885.
Ecbolium linneanum var. *laetevirens* (Vahl) C.B. Clarke in Hook.f., Fl. Brit. India 4: 545. 1885.
Justicia ecbolium var. *laetevirens* (Vahl) Kuntze, Revis. gen. pl. 2: 492. 1891.
Ecbolium viride (Forssk.) Alston var. *dentatum* (Klein ex Link) Santapau in Rec. Bot. Surv. India 16 (1): 208. 1967 (3rd rev. ed.).
Ecbolium viride var. *laetevirens* (Vahl) Santapau in Rec. Bot. Surv. India 16 (1): 208. 1967 (3rd rev. ed.).
Ecbolium viride ssp. *ligustrina* (Vahl) M. R. Almeida, Fl. Maharashtra 4A: 34. 2003.
Ecbolium viride ssp. *ligustrina* var. *dentata* (Klein ex Link) M. R. Almeida, Fl. Maharashtra 4A: 35. 2003.
var. **ligustrinum.**
E & NE to Peninsular India, Upper Gangetic Plains.

var. **aryankavensis** Remadevi & Binojk. in J. Econ. Taxon. Bot. 27 (Suppl.): 1189. 2003.
Kerala.

Ecbolium viride (Forssk.) Alston in Trimen, Handb. fl. Ceylon 6: 229. 1931; Vollesen in Kew Bull. 44: 655. 1989.
Justicia viridis Forssk., Fl. aegypt.-arab. 5. 1775.
Justicia rotundifolia Nees in Wall., Pl. asiat. rar. 3: 108. 1832.
Ecbolium linneanum var. *rotundifolia* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4:545. 1885.
Ecbolium viride var. *rotundifolia* (Nees) Raizada in Indian Forester 84: 482. 1958.
var. **viride.**
E to Peninsular India.

var. **chandrasekariana** Remadevi & Binojk. in J. Econ. Taxon. Bot. 25: 236, f. 1, A-C. 2001.
Kerala (Estuarine areas, Alappuzha dist.).

ECHINACANTHUS Nees in Wall., Pl. asiat. rar. 3: 75, 90. 1832.

Echinacanthus attenuatus Nees in Wall., Pl. asiat. rar. 3: 90. 1832; C. B. Clarke in Hook.f., Fl. Brit. India 4: 414. 1884.
C to E Himalayas, E. India.

Note: *Echinacanthus andersoni, E.longistylus, E.parviflorus and E.pumilio* have been transferred to *Clarkeasia*. C. B. Clarke while reporting *Echinacanthus brugmansianus* in Hook. f., Fl. Brit. India 4: 415. 1884 indicated thus: '*India ? in Vahl's Herbarium (Nees)*, J.R.I. Wood in Edinburgh J. Bot. 51: 182 – 183 & 187 opines that *E. brugmansianus* is from an unknown locality in Asia, *possibly* Indonesia, and its present name is *Hygrophila corymbosa* (Blume) Lindau.

ELYTRARIA Michx., Fl. bor. - amer. 1: 8. 1803, nom. cons.

Elytraria acaulis (L.f.) Lindau in Engl. & Prantl, Nat. Pflanzenfam. Nachtr. 1: 304. 1897; Gamble, Fl. Madras 2: 709. 1967 (Repr.).
Justicia acaulis L. f., Suppl. pl. 84. 1782.
Elytraria crenata Vahl, Enum. pl. 1: 106. 1804; C.B. Clarke in Hook.f., Fl. Brit. India 4: 394. 1884.
Tubiflora acaulis (L.f.) Kuntze, Revis. gen. pl. 2: 500. 1891; T. Cooke, Fl. Bombay 2: 420. 1967 (Repr.).
var. **acaulis**.

E Himalaya, E to N & Peninsular India, Upper Gangetic Plains.
var. **lyrata** (Vahl) Bremek. in Reinwardtia 3: 251. 1955; N.C. Nair & S.R. Sriniv. in J. Econ. Taxon. Bot. 4: 585. 1983.
Elytraria lyrata Vahl, Enum. pl. 1: 106. 1804.
Elytraria crenata var. *lyrata* (Vahl) Nees in DC., Prodr. (Ed. A. DC.) 11: 163. 1847.
Elytraria crenata sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 394. 1884 p.p. non Vahl, 1804.
Peninsular India.

ERANTHEMUM L., Sp. pl. 9. 1753.
DAEDALACANTHUS T. Anderson in Thwaites, Enum. pl. zeyl. 229. 1860.

Eranthemum capense L., Sp. pl. 9. 1753; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (1): 34. 1948.
Justicia montana Roxb., Pl. Coromandel 2: 41, t. 176. 1805.
Eranthemum montanum (Roxb.) Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 110. 1820; Wight, Icon. pl. Ind. orient. t. 466. 1841; Gamble, Fl. Madras 2: 720. 1967 (Repr.).
Daedalacanthus montanus (Roxb.) T. Anderson in Thwaites, Enum. pl. zeyl. 229. 1860; C.B. Clarke in Hook.f., Fl. Brit. India 4: 421. 1884.
var. **capense**.
E & Peninsular India.

var. **concanensis** (T. Anderson ex C.B.Clarke) Santapau in Bot. Mem. Univ. Bombay 2: 34. 1952.
Daedalacanthus montanus var. *concanensis* T. Anderson ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 421. 1884.
Eranthemum montanum var. *concanensis* (T. Anderson ex C.B.Clarke) Gamble, Fl. Madras 1025. 1924 (2 : 720. 1967, Repr.).
Peninsular India.

var. **wightianum** (Wall. ex Nees) Karthik. & Moorthy comb. nov.
Eranthemum wightianum Wall. ex Nees in Wall. pl. asiat. rar. 3: 107. 1832.
Daedalacanthus montanus var. *wightianus* (Wall. ex Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 421. 1884.
Eranthemum montanum var. *wightianum* (Wall ex Nees) Gamble, Fl. Madras 1025. 1924 (2: 720. 1967, Repr.).
Deccan peninsula.

Eranthemum ciliatum (Craib) Benoist in Lecomte, Fl. Indo-Chine 4: 661. 1935; Kanjilal et al., Fl. Assam 3: 439. 1939.
Daedalacanthus ciliatus Craib in Bull. Misc. Inform. 1913: 202. 1913.
NE India.

Eranthemum cinnabarinum Wall. var. **succisifolium** (Kurz) C.B. Clarke in Hook.f., Fl. Brit. India 4: 499. 1884.
Eranthemum succisifolium Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 41: 142. 1876.
Nicobar Islands.

Eranthemum erythrochilum J.R.I. Wood in Edinburgh J. Bot. 51: 180. 1994.
E Himalaya.

Eranthemum griffithii (T. Anderson) Bremek. & Nann.- Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (1): 35. 1948; J.R.I. Wood in Edinburgh J. Bot. 51: 180. 1994.
Daedalacanthus griffithii T. Anderson in J. Linn. Soc., Bot. 9: 486. 1867; C. B. Clarke in Hook. f., Fl. Brit. India 4: 418. 1884.
Himalayas, NE India.

Eranthemum macrophyllum Wall. ex Nees in Wall., Pl. asiat. rar. 3: 106. 1832 & in DC., Prodr. (Ed. A. DC.) 11: 446. 1847; Kanjilal et al., Fl. Assam 3: 438. 1939.
Daedalacanthus macrophyllus (Wall. ex Nees) T. Anderson in J. Linn Soc., Bot. 9: 487 1867; C.B. Clarke in Hook. f., Fl. Brit. India 4: 419. 1884.
NE India.

Eranthemum pubescens Roth, Nov. pl. sp. 1. 1821; * C.B. Clarke in Hook.f., Fl. Brit. India 4: 500. 1884.
Cultivated in Mumbai gardens – M.R. Almeida, Fl. Maharashtra 4A: 38. 2003.
Note: * C.B. Clarke, op. cit. listed this as ' species imperfectly known.'

Eranthemum pulchellum Andrews, Bot. repos. 2, t. 88. 1800; N.C. Nair, Fl. Bashahr Himal. 213. 1977.
Justicia nervosa Vahl, Enum. pl. 1: 164. 1804.
Eranthemum nervosum (Vahl) R. Br., Prodr. 477. 1810; Gamble, Fl. Madras 2: 719. 1967 (Repr.).
Daedalacanthus nervosus (Vahl) T. Anderson in J. Linn. Soc., Bot. 9: 487. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 418. 1884.
Throughout India.

Eranthemum purpurascens Nees in Wall., Pl. asiat. rar. 3: 106. 1832; Gamble, Fl. Madras 2: 719. 1967 (Repr.).
Daedalacanthus purpurascens (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 488. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 420. 1884.
Eranthemum pulchellum var. *purpurascens* (Nees) Kuntze, Revis. gen. pl. 1891; Kanjilal et al., Fl. Assam 3: 439. 1939.
Throughout India.

Eranthemum roseum (Vahl) R. Br., Prodr. 477. 1810; Gamble, Fl. Madras 2: 719. 1967 (Repr.).
Justicia rosea Vahl, Enum. pl. 1: 165. 1804.
Daedalacanthus roseus (Vahl) T. Anderson in J. Linn. Soc., Bot. 9: 487. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 410. 1884.
Eranthemum pulchellum var. *roseum* (Vahl) Kuntze, Revis. gen. pl. 2: 489. 1891.
var. **roseum**.
E India, W Ghats.

var. **neesii** (C.B.Clarke) Karthik. & Moorthy comb. nov.
Daedalacanthus roseus var. *neesii* C.B. Clarke in Hook.f., Fl. Brit. India 4: 420. 1884.
Assam.

Eranthemum scabrum Wall. ex T. Anderson in J. Linn. Soc., Bot. 9: 487. 1867.
Assam.

Eranthemum splendens (T. Anderson) Siebert & Voss in Vilm., Blumengärtn. ed. 3. 1: 806. 1894; J. R. I. Wood in Edinburgh J. Bot. 51: 181. 1994.
Daedalacanthus splendens T. Anderson in J. Linn. Soc., Bot. 9: 486. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 418. 1884.
C & E Himalaya, E India.

Eranthemum strictum Colebr. ex Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 114. 1820; Kanjilal et al., Fl. Assam 3: 437. 1939.
Daedalacanthus strictus (Colebr. ex Roxb.) T. Anderson in J. Linn. Soc., Bot. 9: 487. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 419. 1884.
E Himalaya, NE India.

Eranthemum suffruticosum Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 111. 1820; N.P. Balakr., Fl. Jowai 2: 352. 1983.
Daedalacanthus suffruticosus (Roxb.) T. Anderson in J. Linn. Soc., Bot. 9: 486. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 420. 1884.
Andaman Islands, Meghalaya.

Eranthemum tetragonum (T. Anderson) Nees in Wall., Pl. asiat. rar. 3: 106. 1832; K. S. Sriniv. & V.S. Agarwal in Bull. Bot. Surv. India 5: 80. 1963.
Daedalacanthus tetragonus T. Anderson in J. Linn. Soc., Bot. 9: 488. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 420. 1884; C. E. C. Fisch. in Rec. Bot. Surv. India 12 : 119. 1938.
NE India.

Eranthemum tubiflorum (T. Anderson) Radlk. ex Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV. 3b: 311. 1895; J.R.I. Wood in Edinburgh J. Bot. 51: 180. 1994.
Daedalacanthus tubiflorus T. Anderson in J. Linn. Soc., Bot. 9: 485. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 417. 1884.
Arunachal Pradesh.

Eranthemum wattii Stapf in Curtis, Bot. Mag. (Ed. Prain) 135: t. 8239. 1909.
N India.

GRAPTOPHYLLUM Nees in Wall., Pl. asiat. rar. 3: 76, 102. 1832.

Graptophyllum pictum (L.) Griff., Not. pl. asiat. 4: 139. 1854; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 39. 1988.
Justicia picta L., Sp. pl. ed. 2. 21. 1762.
Graptophyllum hortense Nees in Wall., Pl. asiat. rar. 3: 102. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 545. 1885.
Throughout India including Andaman & Nicobar Islands (Cultivated).

GYMNOSTACHYUM Nees in Wall., Pl. asiat. rar. 3: 76, 106. 1832.

Gymnostachyum canescens (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 505. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 509. 1884.
Cryptophragmium canescens Nees in Wall., Pl. asiat. rar. 3: 100. 1832.
var. **canescens**.
Peninsular India.

var. **longifolium** C.B. Clarke in Hook.f., Fl. Brit. India 4: 509. 1884.
SW Ghats (Karnataka).

Gymnostachyum ceylanicum Arn. ex Nees in Companion Bot. Mag. 2: 311. 1836; Bedd., Icon. pl. Ind. or. t. 265. 1874; Bhargavan & V.S. Ramach. in J. Econ. Taxon. Bot. 5: 445. 1984; J.R.I. Wood in Edinburgh J. Bot. 51: 107. 1994.
Tamilnadu (Nilgiris).

Gymnostachyum febrifugum Benth. in Flora 32: 558. 1849; C.B. Clarke in Hook.f., Fl. Brit. India 4: 508. 1884.
var. **febrifugum**.
S India.

var. **bracteatum** V.S. Ramach. apud V.S. Ramach. & V.J. Nair, Fl. Cannanore 336. 1988.
SW Ghats (Kerala).

Gymnostachyum glabrum (Dalzell) T. Anderson in J. Linn. Soc., Bot. 9: 506. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 509. 1884.
Cryptophragmium glabrum Dalzell in Hooker's J. Bot. Kew. Gard. Misc. 2: 338. 1850.
var. **glabrum.**
Goa, Karnataka, Maharashtra.

var. **denticulatum** C.B. Clarke in Hook.f., Fl. Brit. India 4: 509. 1884.
NW Ghats (Maharashtra).

Gymnostachyum lateriflorum (C.B.Clarke) B. Hansen in Nord. J. Bot. 5: 356. 1985
Eranthemum lateriflorum C.B.Clarke in J. Linn. Soc., Bot. 25: 55, t. 27. 1889.
NE India.

Gymnostachyum latifolium (Dalzell) T. Anderson in J. Linn. Soc., Bot. 9: 505. 1867; Bedd., Icon. pl. Ind. or. t. 253. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 509. 1884.
Cryptophragmium latifolium Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 137. 1850.
Phlogacanthus latifolius Wight, Icon. pl. Ind. orient. t. 1537. 1850.
var. **latifolium.**
Peninsular India.

var. **decurrens** Gamble, Fl. Madras 1053. 1924 (2: 738. 1967, Repr.).
SW Ghats (Kerala).

Gymnostachyum polyanthum Wight, Icon. pl. Ind. orient. t. 1494. 1849; C. B. Clarke in Hook.f., Fl. Brit. India 4: 508. 1884.
W Ghats (Karnataka).

Gymnostachyum sahyadricum C.N. Mohanan, Remadevi & Binojk. in J. Econ. Taxon. Bot. 26: 38, f. A-D. 2002.
SW Ghats (Kerala).

Gymnostachyum tomentosum T. Anderson in J. Linn. Soc., Bot. 9: 505. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 510. 1884.
C India.

Gymnostachyum venustum (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 506. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 507. 1884.
Cryptophragmium venustum Nees in Wall., Pl. asiat. rar. 3: 80. 1832.
Meghalaya.

HAPLANTHODES Kuntze in T. Post & Kuntze, Lex. gen. phan. 265. (1903) 1904.
HAPLANTHUS sensu C. B. Clarke in Hook. f., Fl. Brit. India 4: 506. 1884 non Nees, 1832.
BREMEKAMPIA Sreem. in Bull. Bot. Surv. India 6: 323. 1964 nom. superfl.

Haplanthodes neilgherrensis (Wight) R.B. Majumdar in Bull. Bot. Soc. Bengal 25: 76. 1971.
Haplanthus neilgherrensis Wight, Icon. pl. Ind. orient. t. 1556. 1850.
Haplanthus tentaculatus var. *neilgherrensis* (Wight) C.B. Clarke in Hook.f., Fl. Brit. India 4: 507. 1884 ('nilgherrensis').
Bremekampia neilgherrensis (Wight) Sreem. in Bull. Bot. Surv. India 6: 323. 1965.
Peninsular India.

Haplanthodes plumosa (T. Anderson) Panigrahi & G.C. Das in Bull. Bot. Surv. India 23: 200. (1981) 1983.
Haplanthus plumosus T. Anderson in J. Linn. Soc., Bot. 9: 504. 1867.
Haplanthus tentaculatus var. *plumosus* (T. Anderson) C.B. Clarke in Hook.f., Fl. Brit. India 4: 507. 1884.
W India (Maharashtra).

Haplanthodes tentaculatus (L.) R. B. Majumdar in Bull. Bot. Soc. Bengal 25: 76. 1971.
Ruellia tentaculata L., Cent. pl. II: 22. 1756 & Amoen. acad. 4: 320. 1759.
Haplanthus tentaculatus (L.) Nees in DC., Prodr. (Ed. A. DC.) 11: 513. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 507. 1884.
Haplanthus tentaculatus var. *neesianus* Santapau in Bot. Mem. Univ. Bombay 2: 52. 1952.
Bremekampia tentaculata (L.) Sreem. in Bull. Bot. Surv. India 6: 324. 1965.
C & Peninsular India, Upper Gangetic Plains.

Haplanthodes verticillatus (Roxb.) R.B. Majumdar in Bull. Bot. Soc. Bengal 25: 76. 1971.
Justicia verticillata Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 135. 1820.
Haplanthus verticillatus (Roxb.) Nees in DC., Prodr. (Ed. A. DC.) 11: 513. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 506. 1884 ('verticillaris').
Bremekampia verticillata (Roxb.) Sreem. in Bull. Bot. Surv. India 6: 323. 1965.
E & Peninsular India, Upper Gangetic Plains.

HEMIGRAPHIS Nees in DC., Prodr. (Ed. A. DC.) 11: 722. 1847.
GANTERBLA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. **41** (1): 147. 1944.

Hemigraphis alternata (Burm. f.) T. Anderson in J. Proc. Linn. Soc., Bot. 7: 114. 1864; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 126. 1944.
Ruellia alternata Burm.f., Fl. indica 135. 1768.
Ruellia colorata Blume, Bijdr. 795. 1826; Chandrab. & N.C. Nair, Fl. Coimbatore 228. 1988.
Tamilnadu (Cultivated).

Hemigraphis crenata (Benth. ex Hohen.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 137. 1944.
Ruellia crenata Benth. ex Hohen. in Flora 32: 558. 1849.
Hemigraphis elegans Nees var. *crenata* (Benth. ex Hohen.) C.B. Clarke in Hook.f., Fl. Brit. India 4: 425. 1884.
Peninsular India.

Hemigraphis crossandra (Steud.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 137. 1944; Santapau in Bot. Mem. Univ. Bombay 2: 27. 1952.
Ruellia crossandra Steud., Nomencl. bot. ed. 2. 2: 481. 1841.
Ruellia elegans Hook. in Curtis, Bot. Mag. (Ed. Hook.) 62: t. 3389. 1835 non Poir., 1816.
Hemigraphis elegans Nees in DC., Prodr. (Ed. A. DC.) 11: 722. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 424. 1884.
W Himalaya.

Hemigraphis hirta (Vahl) T. Anderson in J. Linn. Soc., Bot. 9: 462. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 422. 1884.
Ruellia hirta Vahl, Symb. bot. 3: 84, t. 67. 1794.
Throughout India.

Hemigraphis latebrosa (B. Heyne ex Roth) Nees in DC., Prodr. (Ed. A. DC.) 11: 723. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 423. 1884.
Ruellia latebrosa B. Heyne ex Roth, Nov. pl. sp. 307. 1821.

var. **latebrosa.**
Hemigraphis latebrosa var. *heyneana* Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 139. 1944.
Almost throughout India.

var. **beddomei** C.B. Clarke in Hook.f., Fl. Brit. India 4: 424. 1884; Gamble, Fl. Madras 2: 715. 1967 (Repr.).
Andhra Pradesh, Karnataka.

var. **ebracteata** (Dalzell) T. Cooke, Fl. Bombay 2: 358. 1904 (2: 434. 1967,Repr.).
Ruellia ebracteata Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 342. 1850.
Hemigraphis ebracteolata (Dalzell) C.B. Clarke in Hook.f., Fl. Brit. India 4: 424. 1884 ('ebracteata').
NW Ghats (Maharashtra).

var. **incana** Gamble, Fl. Madras 1019. 1924 (2: 715. 1967, Repr.).
Andhra Pradesh.

Hemigraphis repanda (L.) Hallier f. in Nov. Actorum Acad. Caes. Leop.-Carol. German Nat. Cur. 70: 198. 1897; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 135. 1944.
Ruellia repanda L., Sp. pl. ed. 2. 886. 1763.
Cultivated.

Hemigraphis rupestris B. Heyne ex T. Anderson in J. Linn. Soc., Bot. 9: 462. 1867; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 141. 1944; Babu, Herb. fl. Dehra Dun 384. 1977.
Hemigraphis latebrosa var. *rupestris* (B. Heyne ex T. Anderson) C.B. Clarke in Hook.f., Fl. Brit. India 4: 424. 1884.
Throughout India.

Hemigraphis urens (Roth) J.R.I. Wood in Edinburgh J. Bot. 51: 108. 1994.
Ruellia urens Roth, Nov. pl. sp. 302. 1821.
Ruellia dura Nees in Companion Bot. Mag. 2: 311. 1836 & in DC., Prodr. (Ed. A.DC.) 11: 146. 1847.
Hemigraphis dura (Nees) T.Anderson in J. Linn. Soc., Bot. 9: 461. 1867 (excl. syn. *Ruellia crispa* Nees non L.); C.B. Clarke in Hook.f., Fl. Brit. India 4: 422. 1884.
Gantelbua urens (Roth) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 148. 1944; Santapau in Bot. Mem. Univ. Bombay 2: 30. 1952.
Peninsular India, Upper Gangetic Plains.

Hemigraphis venosa C.B. Clarke in Hook. f., Fl. Brit. India 4: 423. 1884.
C & S India.
Note: See Venu & P. Daniel in Bull. Bot. Surv. India 45: 91 – 96, f. 1, A – I. 2003.

HYGROPHILA R. Br., Prodr. 479. 1810.
NOMAPHILA Blume, Bijdr. 804. 1826.
CARDANTHERA Buch.-Ham. ex Nees in DC., Prodr. (Ed. A. DC.) 11: 67. 1847.
SANTAPAUA N.P. Balakr. & Subr. in J. Indian Bot. Soc. 42: 411. 1963.

Hygrophila anomala (Blatt.) M. R. Almeida, Fl. Maharashtra 4A: 48. 2003.
Cardanthera anomala Blatt. in J. Proc. Asiat. Soc. Bengal 1930 n.s. 26: 350. 1930.
Synnema anomala (Blatt.) Santapau in Rec. Bot. Surv. India 16 (1): 194. 1967 (3rd rev. ed.).
NW Ghats (Maharashtra).

Hygrophila balsamica (L.f.) Raf., Fl. tellur. 4: 66. 1838; Sreem. in Bull. Bot. Surv. India 10: 222. 1968.
Ruellia balsamica L.f., Suppl. pl. 289. 1782.
Adenosma balsamica (L.f.) Spreng., Syst. veg. ed. 16. 2: 829. 1825 ('balsamea'); Wight, Icon. pl. Ind. orient. t. 446. 1841.

Adenosma verticillata Nees in Wall., Pl. asiat. rar. 3: 79. 1832.
Cardanthera balsamica (L.f.) Benth. in Benth. & Hook.f., Gen. pl. 2: 1074. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 404. 1884.
Cardanthera verticillata (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 404. 1884.
Synnema barbigera Kuntze, Revis. gen. pl. 2: 500. 1891; Raizada in Indian Forester 94: 451. 1968.
Synnema verticillatum (Nees) Kuntze, Revis. gen. pl. 2: 500. 1891.
Synnema balsamicum (L.f.) Alston in Trimen, Handb. fl. Ceylon 6 (Suppl.): 224. 1931.
var. **balsamica.**
E & Peninsular India.

var. **thymus** (Nees) Karthik. & Moorthy comb. nov.
Adenosma thymus Nees in Wall., Pl. asiat. rar. 3: 79. 1832.
Cardanthera balsamica var. *thymus* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 404. 1884.
Peninsular India.

Hygrophila difformis (L.f.) Blume, Bijdr. 803. 1826; Heine in Adansonia 2, 11: 658. 1971.
Ruellia difformis L.f., Suppl. pl. 289. 1782.
Cardanthera difformis (L.f.) Druce in Bot. Soc. Exch. Club Brit. Isles 1916, Suppl. 2: 612. 1917.
E Himalaya.

Hygrophila erecta (Burm.f.) Hochr. in Candollea 5: 230. 1934; Raizada in Indian Forester 94: 444. 1968; S. Mitra & Bandyop. in J. Bombay Nat. Hist. Soc. 97: 315. 2000.
Ruellia erecta Burm.f., Fl. indica 135. 1768.
Ruellia quadrivalvis Buch.-Ham. in Trans. Linn. Soc. London 14: 291. 1824.
Hygrophila quadrivalvis (Buch.-Ham.) Nees in Wall., Pl. asiat. rar. 3: 80. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 408. 1884; K. M. Matthew, Fl. Tamilnadu Carnatic 3: 1179. 1983.
Hygrophila bengalensis S.K. Mandal, A. Bhattacharjee & Nayek in J. Bombay Nat. Hist. Soc. 94: 546. 1997.
Andaman & Nicobar Islands, E, NE to Peninsular India.

Hygrophila griffithii (T. Anderson) Sreem. in Bull. Bot. Surv. India 10: 222. 1968.
Adenosma griffithii T. Anderson in J. Linn. Soc., Bot. 11: 454. 1867.
Cardanthera griffithii (T. Anderson) Benth. in Benth. & Hook.f., Gen. pl. 2: 1074. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 404. 1884.
Synnema griffithii (T. Anderson) Kuntze, Revis. gen. pl. 2: 500. 1891.
Assam.

Hygrophila heinei Sreem. in Bull. Bot. Surv. India 10: 223. 1968; Kumari in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 149. 1987.
Ruellia uliginosa L.f., Suppl. pl. 180. 1782 non *Hygrophila uliginosa* S. Moore in J. Bot. 18: 197. 1880.
Adenosma uliginosa (L.f.) R. Br. ex Nees in R. Br., Verm. bot. Schr. 3 (1): 389. 1827 & in DC., Prodr. (Ed. A. DC.) 11: 69. 1847.
Cardanthera uliginosa (L.f.) Buch.-Ham. ex Benth. in Benth. & Hook.f., Gen. pl. 2: 1074. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 403. 1884.
Synnema uliginosum (L.f.) Kuntze, Revis. gen. pl. 2: 500. 1891; Raizada in Indian Forester 94: 452. 1968.
Hygrophila helodes Heine in Adansonia 11(4): 658. (1971) 1972 non Nees, 1847.
var. **heinei.**
E India, Sikkim terai, Tamilnadu.

var. **birbhumensis** (B.P. Guha) H.B. Naithani & S. Biswas in H.B. Naithani, Fl. pl. India, Nepal & Bhutan 333. 1990.
Cardanthera uliginosa var. *birbhumensis* B.P. Guha in Bull. Bot. Soc. Bengal 21: 47. 1967.
W Bengal.

Hygrophila incana Nees in DC., Prodr. (Ed. A.DC.) 11: 91. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 408. 1884.
S India.

Hygrophila madurensis (N.P. Balakr. & Subr.) Karthik. & Moorthy comb. nov.
Santapaua madurensis N.P. Balakr. & Subr. in J. Indian Bot. Soc. 42: 431. 1963.
Tamilnadu.

Hygrophila parishii (T. Anderson) Karthik. & Moorthy comb.nov.
Nomaphila parishii T. Anderson in J. Linn. Soc., Bot. 9: 455. 1867; C.B. Clarke in Hook. f., Fl. Brit. India 4: 409. 1884; K. K. Khanna, A. K. Tripathi & Mudgal in Mudgal, K. K. Khanna & Hajra (Eds.), Fl. Madhya Pradesh 2: 343. 1997.
Madhya Pradesh.

Hygrophila phlomoides Nees in Wall., Pl. asiat. rar. 3: 80. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 408. 1884.
var. **phlomoides.**
E & NE India, E Himalaya.

var. **roxburghii** C.B. Clarke in Hook.f., Fl. Brit. India 4: 408. 1884.
E & W India.

Hygrophila pinnatifida (Dalzell) Sreem. in Bull. Bot. Surv. India 10: 222. 1968.
Nomaphila pinnatifida Dalzell in Hooker's J. Bot. Kew Gard. Misc. 3: 38. 1851.
Adenosma pinnatifida (Dalzell) T. Anderson in J. Linn. Soc., Bot. 9: 455. 1867.
Cardanthera pinnatifida (Dalzell) Benth. in Benth. & Hook.f., Gen. pl. 2: 1074. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 405. 1884.
Synnema pinnatifidum (Dalzell) Kuntze, Revis. gen. pl. 2: 500. 1891.
N & Peninsular India, Sub-Himalayan tracts.

Hygrophila polysperma (Roxb.) T. Anderson in J. Linn. Soc., Bot. 9: 456. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 406. 1884.
Justicia polysperma Roxb., Fl. ind. (Ed. Carey) 1: 119. 1832.
Hemiadelphis polyspermus (Roxb.) Nees in Wall., Pl. asiat. rar. 3: 80. 1832.
Hemiadelphis polyspermus var. *joshianus* Prak.Rao & S.N. Biswas in Indian Forester 94: 657. 1968.
Throughout India.

Hygrophila pusilla Blume, Bijdr. 804. 1826; Vasudeva Rao in Bull. Bot. Surv. India 22: 100. (1980) 1982.
Andaman & Nicobar Islands.

Hygrophila ringens (L.) R. Br. ex Steud., Nomencl. bot. ed. 1. 1: 418. 1821; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 39. 1988.
Ruellia ringens L., Sp. pl. 635. 1753.
Ruellia salicifolia Vahl, Symb. bot. 3: 84. 1794.
Hygrophila angustifolia R. Br., Prodr. 479. 1810; T. Cooke, Fl. Bombay 2: 430. 1967 (Repr.).
Ruellia obovata Roxb. ex Hornem., Suppl. Hort. bot. hafn. 144. 1819.
Hygrophila quadrivalvis sensu C. B. Clarke in Hook.f., Fl. Brit. India 4: 408. 1884, p.p. non Nees, 1832.
Hygrophila salicifolia (Vahl) Nees in Wall., Pl. asiat. rar. 3: 81. 1832; Wight, Icon. pl. Ind. orient. t. 1490. 1849; C.B. Clarke in Hook.f., Fl. Brit. India 4: 407. 1884.
Hygrophila obovata (Roxb.) Nees ex Wight, Icon. pl. Ind. orient. t. 1489. 1849; Naik in Indian Forester 95: 413. 1969.
var. **ringens.**
Throughout India including Andaman & Nicobar Islands.

var. **assurgens** (Nees) Karthik. & Moorthy comb. nov.
Hygrophila assurgens Nees in DC., Prodr. (Ed. A.DC.) 11: 90. 1847.
Hygrophila salicifolia var. *assurgens* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 407. 1884.
E India ?

var. **cochinensis** (Remadevi & Binojk.) Karthik. & Moorthy comb. nov.
Hygrophila salicifolia var. *cochinensis* Remadevi & Binojk. in J. Econ. Taxon. Bot. 25: 233, f. 1, A-E. (2001) 2002.
Kerala.

Hygrophila schulli (Buch.-Ham.) M. R. & S. M. Almeida in J. Bombay Nat. Hist. Soc. 83 (Suppl.): 221. 1987.
Bahel schulli Buch.-Ham. in Trans. Linn. Soc. London 14: 289. 1824.
Barleria longifolia L., Cent. pl. II: 22. 1756 & Amoen. acad. 4: 320. 1759 non *Hygrophila longifolia* Nees, 1847.
Barleria auriculata Schumach., Beskr. Guin. pl. 285. 1827.
Asteracantha longifolia (L.) Nees in Wall., Pl. asiat. rar. 3: 90. 1832; Wight, Icon. pl. Ind. orient. t. 449. 1846.
Hygrophila spinosa T. Anderson in Thwaites, Enum. pl. zeyl. 225. 1860; C.B. Clarke in Hook.f., Fl. Brit. India 4: 408. 1884.
Hygrophila longifolia (L.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 39: 78. 1870 nom. illegit.
Hygrophila auriculata (Schumach.) Heine in Kew Bull. 16: 172. 1962.
Hygrophila schulli var. *alba* Parmar in J. Econ. Taxon. Bot. 32:150. 2008.
Throughout India.

Hygrophila serpyllum (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 456. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 406. 1884; J. R. I. Wood in Edinburgh J. Bot. 51: 105. 1994.
Physichilus serpyllum Nees in Companion Bot. Mag. 2: 310. 1836.
var. **serpyllum**.
E to Peninsular India, Upper Gangetic Plains.

var. **hookeriana** C.B. Clarke in Hook.f., Fl. Brit. India 4: 407. 1884.
NW Ghats (Maharashtra).

Hygrophila stocksii T. Anderson ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 407. 1884.
Maharashtra.

Hygrophila triflora (Roxb. ex Nees) Fosberg & Sachet in Baileya 21: 145. 1981.
Adenosma triflora Roxb. ex Nees in Wall., Pl. asiat. rar. 3: 79. (Aug.) 1832.
Ruellia triflora Roxb., Fl. ind. (Ed. Carey) 3: 52. Oct.-Dec. 1832.
Cardanthera triflora (Roxb. ex Nees) Buch.-Ham. ex Nees in DC., Prodr. (Ed. A.DC.) 11: 68. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 405. 1884.
Synnema triflorum (Roxb. ex Nees) Kuntze, Revis. gen. pl. 2: 500. 1891.
E & NE India.
Note: Though Heine (in Adansonia 2, 11: 658. 1971) treats *Hygrophila difformis* and *H. triflora* as conspecific, Fosberg & Sachet (1981) feel *H. triflora* is different from *H. difformis*.

Notes : C.B. Clarke in Hook.f., Fl. Brit. India 4: 409. 1884 states that *Nomaphila stricta* Nees in DC., Prodr. (Ed. A.DC.) 11: 84. 1847 is in Rottler's Madras collection at Kew, but it may be doubted, whether it was collected in wild condition in India. Gamble (Fl. Madras) has not recorded this and till today it has not been reported and so it is assumed that this species does not occur in India.
This species has been reported by Backer & Bakh. f., Fl. Java 2: 571. 1965 and the name provided is *Hygrophila stricta* (Nees) Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b: 297. 1895. However, the epithet, *stricta* is not available because of *Hygrophila stricta* Hassk., Cat. hort. bot. bogor. 148. 1844. So, we provide the following new name: *Hygrophila javae* Karthik. & Moorthy nom. nov.

HYPOESTES Sol. ex R. Br., Prodr. 474. 1810.

Hypoestes andamanensis Thoth. in Reinwardtia 7: 1, ff. 1-7. 1965.
Andaman Islands.

Hypoestes lanata Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 343. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 557. 1885.
NW Ghats (Maharashtra).

Hypoestes phyllostachya Baker in J. Linn. Soc., Bot. 22: 511. 1887; Remadevi & Binojk. in J. Econ. Taxon. Bot. 25: 621, f. 1, A-E. (2001) 2002.
Kerala.

Hypoestes thothathrii Vasudeva Rao & Chakrab. in J. Econ. Taxon. Bot. 5: 989. 1984.
Andaman & Nicobar Islands.

Hypoestes triflora Roem. & Schult., Syst. veg. 1: 88. 1817; C.B. Clarke in Hook.f., Fl. Brit. India 4: 557. 1885. var. **triflora**.
E Himalaya, NE India.

var. **pedunculata** N.P. Balakr. in Bull. Bot. Surv. India 16: 172. 1977.
Meghalaya.

ISOGLOSSA Oerst. in Vidensk. Meddel. Dansk. Naturhist. Foren. Kjobenhavn 1854: 155. 1854, nom. cons.
STROPHACANTHUS Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b: 344. 1895.

Isoglossa collina (T. Anderson) B. Hansen in Nord. J. Bot. 5: 12. 1985.
Justicia collina T. Anderson in J. Linn. Soc., Bot. 9: 515. 1867.
Dianthera collina (T. Anderson) C.B. Clarke in Hook.f., Fl. Brit. India 4: 543. 1885.
Strophacanthus collinus (T. Anderson) Lindau in Bot. Jahrb. Syst. 18: 58. 1893.
Ptyssioglottis collina (T. Anderson) S. Moore in J. Bot. 60: 356. 1922.
Dianthera sinensis W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 12: 204. 1912.
E Himalaya, NE India.

JUSTICIA L., Sp. pl. 15. 1753.
DIANTHERA L., Sp. pl. 27. 1753 p.p.
ADHATODA Mill., Gard. dict. abr. ed. 4. 1754.
MONECHMA Hochst. in Flora 24: 374. 1841.
MANANTHES Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 59. 1948.

Justicia adhatoda L., Sp. pl. 15. 1753; Stearn in J. Arnold Arbor. 52: 640. 1971.
Adhatoda zeylanica Medik. in Hist. & Commentat. Acad. Elect. Sci. Theod.-Palat. 6: 393. 1790.
Adhatoda vasica Nees in Wall., Pl. asiat. rar. 3: 103. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 540. 1885.
Throughout India.

Justicia andamanica (Vasudeva Rao) Vasudeva Rao in J. Econ. Taxon. Bot. 18: 249. 1994.
Rostellularia andamanica Vasudeva Rao in J. Econ. Taxon. Bot. 6: 719. 1985.
Andaman Islands.

Justicia anfractuosa C.B. Clarke in J. Linn. Soc., Bot. 25: 56. 1887; K.S. Sriniv. & V.S. Agarwal in Bull. Bot. Surv. India 5: 80. 1963.
NE India.

Justicia assamica C.B. Clarke in Hook.f., Fl. Brit. India 4: 537. 1885.
Rostellularia assamica (C.B.Clarke) J.L. Ellis in Bull. Bot. Surv. India 24: 209. (1982) 1983.
NE India.

Justicia atkinsoni T. Anderson in J. Linn. Soc., Bot. 9: 509. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 528. 1885.
E. Himalaya.

Justicia beddomei (C.B.Clarke) Bennet in Indian J. Forest. 5: 326. 1982.
Adhatoda beddomei C.B. Clarke in Hook.f., Fl. Brit. India 4: 540. 1885.
Justicia gingiana Sebastine & Ramam. in Bull. Bot. Surv. India 6: 99. 1965.
Kerala, Tamilnadu.

Justicia betonica L., Sp. pl. 15. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 4: 525. 1885; V.A.W. Graham in Kew Bull. 43: 586. 1988.
var. betonica.
Throughout India.

var. **ramosissima** (Roxb.) C.B. Clarke in Hook.f., Fl. Brit. India 4: 525. 1885.
Justicia ramosissima Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 130. 1820 & (Ed. Carey) 1: 129. 1832.
Throughout India.

var. **villosa** C.B. Clarke in Hook.f., Fl. Brit. India 4: 525. 1885.
C. E. & S. India, Upper Gangetic Plains.

Justicia burkilliana J. Bhattacharya apud J. Bhattacharya & Vollesen in Kew Bull. 57: 231, t. 2. 2002.
Arunachal Pradesh.

Justicia craibii W.W. Sm. in Rec. Bot. Surv. India 4: 285. 1911
Assam.

Justicia diffusa Willd., Sp. pl. 4 : 87. 1805; C.B. Clarke in Hook.f., Fl. Brit. India 4: 538. 1885; V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellularia diffusa (Willd.) Nees in Wall., Pl. asiat. rar. 3: 100. 1832.
var. diffusa.
Throughout India.

var. **hedyotidifolia** (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 538. 1885.
Rostellularia hedyotidifolia Nees in Wall., Pl. asiat. rar. 3: 100. 1832.
Rostellularia diffusa var. *hedyotidifolia* (Nees) Kumari in A.N. Henry et al. (Eds.) Fl. Tamilnadu anal. 2: 158. 1987.
S. India.

Justicia ekakusuma Pradeep & Sivar. in Rheedea 1: 42. 1991.
Kerala.

Justicia ellisii Karthik. & Moorthy nom. nov.
Dianthera debilis Forssk., Fl. aegypt.-arab. 9. 1775 non *Justicia debilis* Vahl, 1791 nec Lam., 1792.
Monechma bracteatum Hochst. in Flora 24: 375. 1841; T. Cooke, Fl. Bombay 2: 492. 1967 (Repr.).
Monechma debile (Forssk.) Nees in DC., Prodr. (Ed. A. DC.) 11: 411. 1847 ('debilis'); Santapau in Bot. Mem. Univ. Bombay 2: 91. 1952
Gujarat, Cultivated in Maharashtra (Pune).
Note: The specific epithet is in honour of Dr. J. L. Ellis, former Scientist, Botanical Survey of India, Coimbatore for his contribution to the floristics of India.

Justicia flagelliformis C.B. Clarke in Hook.f., Fl. Brit. India 4: 535. 1885.
Andaman Islands ? (J.W. Helfer).

Justicia gendarussa Burm. f., Fl. indica 10. 1768; C.B. Clarke in Hook.f., Fl. Brit. India 4: 532. 1885; V.A.W. Graham in Kew Bull. 43: 589. 1988.
Gendarussa vulgaris Nees in Wall., Pl. asiat. rar. 3: 104. 1832.
Throughout India.

Justicia glabra J. König ex Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 132. 1820; C.B. Clarke in Hook.f., Fl. Brit. India 4: 535. 1885.
Rhaphidospora glabra (J. König ex Roxb.) Nees in Wall., Pl. asiat. rar. 3: 115. 1832; Wight, Icon. pl. Ind. orient. t. 1554. 1850.
Rhaphidospora glabrituba Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 48. 1948.
Peninsular India.

Justicia glauca Rottler in Ges. Naturf. Freunde Berlin Neue Schriften 4: 219. 1802; C.B. Clarke in Hook.f., Fl. Brit. India 4: 529. 1885.
Gendarussa tranquebariensis Wight, Icon. pl. Ind. orient. t. 462. 1841 non Nees, 1832.
E & Peninsular India.

Justicia grossa C.B. Clarke in Hook.f., Fl. Brit. India 4: 533. 1885; B. Hansen in Nord. J. Bot. 7: 507. 1987.
Justicia helferi C.B. Clarke in Hook.f., Fl. Brit. India 4: 533. 1885.
Andaman Islands.

Justicia heterocarpa T. Anderson in J. Proc. Linn. Soc., Bot. 7: 41. 1863; C.B. Clarke in Hook.f., Fl. Brit. India 4: 531. 1885.
Punjab, Upper Gangetic Plains, W India.

Justicia heterocarpoides Blatt. in J. & Proc. Asiat. Soc. Bengal 26: 344. (1930) 1931.
Maharashtra ?, Rajasthan.

Justicia japonica Thunb., Fl. jap. 20. 1784; V.S. Ramach. & V.J. Nair, Fl. Cannanore 340. 1988.
Justicia simplex sensu C. B. Clarke in Hook. f., Fl. Brit. India 4: 539. 1885 p.p. non D. Don, 1825.
Rostellularia japonica (Thunb.) J.L. Ellis in Bull. Bot. Surv. India 22: 196. (1980) 1982.
N NE & Peninsular India.

Justicia khasiana C.B. Clarke in Hook.f., Fl. Brit. India 4: 537. 1885; V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellularia khasiana (C.B.Clarke) J.L. Ellis in Bull. Bot. Surv. India 20: 172. (1978) 1979.
NE India.

Justicia latispica (C.B.Clarke) Gamble, Fl. Madras 1080. 1924 (2: 756. 1967, Repr.).
Justicia procumbens var. *latispica* C.B. Clarke in Hook.f., Fl. Brit. India 4: 539. 1885.
Rostellularia procumbens Wight, Icon. pl. Ind. orient. t. 1539. 1850 non Nees, 1832.
Rostellularia latispica (C.B.Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 71. 1948.
E N & S India.

Justicia nagpurensis V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellularia procumbens var. *serpyllifolia* Benth. in Hohen., Pl. ind. or. 571. 1847.
Justicia simplex var. *serpyllifolia* (Benth.) C.B. Clarke in Hook.f., Fl. Brit. India 4: 539. 1885.
Justicia serpyllifolia (Benth.) Gamble, Fl. Madras 1080. 1924 (2: 756. 1967, Repr.) non Vahl, 1804.
Rostellularia serpyllifolia (Benth.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 62. 1948.

Rostellularia mollissima var. *serpyllifolia* (C.B.Clarke) Raizada, Suppl. Duthie's fl. Gangetic plain 209. 1976.
Justicia hansenii Sivar. & P. Mathew in Taxon 38: 486. 1989.
E & Peninsular India, Upper Gangetic Plains.

Justicia neesiana (Wall. ex Nees) T. Anderson in J. Linn. Soc., Bot. 9: 513. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 531. 1885.
Gendarussa neesiana Wall. ex Nees in Wall., Pl. asiat. rar. 3: 105. 1832.
Adhatoda neesiana (Wall. ex Nees) Nees in DC., Prodr. (Ed. A.DC.) 11: 397. 1847.
Meghalaya.

Justicia neesii Ramamoorthy in C.J. Saldanha & Nicolson, Fl. Hassan dist. 551. 1976.
Justicia micrantha Wall. ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 536. 1885 non Pohl ex Nees, 1847.
Rostellularia crinita Nees in Wall., Pl. asiat. rar. 3: 101. 1830.
Rostellularia neesii (Ramamoorthy) A.K. Mukh., Fl. Pachmarhi & Bori res. 236. 1984.
Peninsular India.

Justicia nepalensis V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellaria rotundifolia Nees in Wall., Pl. asiat. rar. 3: 100. 1832 non *Justicia rotundifolia* Nees, 1832.
Rostellularia rotundifolia (Nees) Nees in DC., Prodr. (Ed. A.DC.) 11: 370. 1847.
Justicia simplex sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 539. 1885 p.p.
Almost throughout India.

Justicia nilgherrensis (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 526. 1885; V.A.W. Graham in Kew Bull. 43: 586. 1988.
Adhatoda nilgherrensis Nees in Wall., Pl. asiat. rar. 3: 103, 1832; Wight, Icon. pl. Ind. orient. t. 1544. 1850.
S India.

Justicia notha C.B. Clarke in Hook.f., Fl. Brit. India 4: 537. 1885; V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellularia simplex Wight, Icon. pl. Ind. orient. t. 1542. 1850 non *Justicia simplex* D. Don, 1825.
Tamilnadu.

Justicia orbiculata Wall. ex T. Anderson in J. Linn. Soc., Bot. 9: 512. 1867; Gamble, Fl. Madras 2: 757. 1967 (Repr.).
Justicia diffusa var. *orbiculata* (Wall. ex T. Anderson) C.B. Clarke in Hook.f., Fl. Brit. India 4: 538. 1885.
Rostellularia diffusa var. *orbiculata* (Wall. ex T. Anderson) J. L. Ellis apud B. D. Sharma et al. in Biol. Mem. 2: 109. 1977.
Rostellularia diffusa var. *rotundifolia* J. L. Ellis in Bull. Bot. Surv. India 30: 132. (1988) 1990.
E to Peninsular India.

Justicia pathanamthittiensis Remadevi & Binojk. in J. Econ . Taxon. Bot. 32: 660, f.1. 2008.
SW Ghats (Kerala).

Justicia peploides (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 54. 1867; V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellaria peploides Nees in Wall., Pl. asiat. rar. 3: 101. 1832.
Justicia quinqueangularis J. König ex Roxb. var. *peploides* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 537. 1885.
Rostellularia quinqueangularis var. *peploides* (Nees) Raizada, Suppl. Duthie's fl. Gangetic plain 209. 1976.
E to N & Peninsular India, Himalayas.

Justicia procumbens L., Sp. pl. 15. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 4: 539. 1885.
Rostellularia procumbens (L.) Nees in DC., Prodr. (Ed. A.DC.) 11: 371. 1847.

Rostellularia sunilana Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 62. 1948.
Throughout India including Andaman & Nicobar Islands.

Justicia prostrata (Roxb. ex C.B.Clarke) Gamble, Fl. Madras 1081. 1924 (2: 757. 1967, Repr.).
Justicia diffusa var. *prostrata* Roxb. ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 538. 1885.
Rostellularia prostrata (Roxb. ex C.B.Clarke) K.B. Majumdar in Bull. Bot. Soc. Bengal 25: 75. 1971.
Rostellularia diffusa var. *prostrata* (Roxb. ex C.B.Clarke) J. L. Ellis in Bull. Bot. Surv. India 30: 131. (1988) 1990.
Throughout tropical India.

Justicia pubigera (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 536. 1885.
Peristrophe pubigera Nees in Wall., Pl. asiat. rar. 3: 114. 1832.
Temperate W Himalaya.

Justicia punduana (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 527. 1885.
Rungia punduana Nees in Wall., Pl. asiat. rar. 3: 110. 1832.
NE India.

Justicia quadrifaria (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 514. 1867; C. B. Clarke in Hook.f., Fl. Brit. India 4: 530. 1885.
Gendarussa quadrifaria Nees in Wall., Pl. asiat. rar. 3: 105. 1832.
NE India.

Justicia quinqueangularis J. König ex Roxb., Fl. ind. (Eds. Wall. & Carey) 1: 134. 1820; C.B. Clarke in Hook.f., Fl. Brit. India 4: 536. 1885; V.A.W. Graham in Kew Bull. 43: 597. 1988.
Rostellularia quinqueangularis (J. König ex Roxb.) Nees in Wall., Pl. asiat. rar. 3: 101. 1832.
Throughout India.

Justicia ramamurthyi Karthik. & Moorthy nom. nov.
Adhatoda cymosa Griff., Itin. pl. Khasyah mts. (Posth. papers 1) 7 No. 96. 1848 non *Justicia cymosa* Nees, 1847.
Assam.
Note: The specific epithet is in honour of Dr. K. Ramamurthy, former Scientist, Botanical Survey of India, Coimbatore for his valuable contribution to Indian Taxonomic Botany.

Justicia salicifolia T. Anderson in J. Linn. Soc., Bot. 9: 514. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 531. 1885; V.A.W. Graham in Kew Bull. 43: 594. 1988.
Calophanoides salicifolia (T. Anderson) Bremek. in Dansk. Bot. Ark. 20: 84. 1961.
Meghalaya.

Justicia salsoloides T. Anderson in J. Linn. Soc., Bot. 9: 514. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 530. 1885.
S India.

Justicia santapaui Bennet in J. Bombay Nat. Hist. Soc. 67: 358. 1970.
Hemichoriste montana Nees in Wall., Pl. asiat. rar. 3: 102. 1832; Wight, Icon. pl. Ind. orient. t. 1538. 1850.
Justicia montana (Nees) Wall. ex T. Anderson in J. Linn. Soc., Bot. 9: 509. 1867 non Roxb., 1805; C.B. Clarke in Hook.f., Fl. Brit. India 4: 525. 1885.
Justicia andersonii Ramamoorthy in C.J. Saldanha & Nicolson, Fl. Hassan dist. 551. 1976.
Peninsular India.

Justicia simplex D. Don, Prodr. fl. nepal. 118. 1825; C.B. Clarke in Hook.f., Fl. Brit. India 4: 539. 1885.
Rostellaria mollissima Nees in Wall., Pl. asiat. rar. 3: 101. 1832.
Rostellularia mollissima (Nees) Nees in DC., Prodr. (Ed. A.DC.) 11: 373. 1847.
Rostellularia pumila Nees in DC., Prodr. (Ed. A.DC.) 11: 372. 1847; R.B. Majumdar in Bull. Bot. Soc. Bengal 25: 75. 1971.
Rostellularia procumbens var. *simplex* (D. Don) T. Yamaz. in H. Hara, Fl. E. Himal. 302. 1966.
Throughout India.

Justicia stulonifera (C.B.Clarke) B. Hansen in Nord. J. Bot. 9: 210. 1989.
Rungia stolonifera C.B. Clarke in Hook.f., Fl. Brit. India 4: 547. 1885.
NE India.

Justicia sumatrana (Miq.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 45 (2): 142. 1876; B. D. Jacks., Index kew. 1: 1268. 1895.
Gendarussa? sumatrana Miq., Fl. Ned. Ind. 2: 832. 1858*.
Manantheс sumatrana (Miq.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 59. 1948; Vasudeva Rao in Bull. Bot. Surv. India 22: 100. (1980) 1982.
Andaman & Nicobar Islands.
* C.B. Clarke in Hook.f., Fl. Brit. India 4: 534. 1885 cited this as a synonym under *Justicia ptychostoma* Wall., Numer. List 2478. 1870 which was reported from Penang.

Justicia tranquebariensis L.f., Suppl. pl. 85. 1782; C.B. Clarke in Hook.f., Fl. Brit. India 4: 530. 1885.
Gendarussa tranquebariensis (L.f.) Nees in Wall., Pl. asiat. rar. 3: 105. 1832.
S India.

Justicia trinervia Vahl, Enum. pl. 1: 156. 1804; C.B. Clarke in Hook.f., Fl. Brit. India 4: 526. 1885; V.A.W. Graham in Kew Bull. 43: 586. 1988.
var. **trinervia**.
Peninsular India.

var. **arenaria** (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 526. 1885.
Adhatoda arenaria Nees in DC., Prodr. (Ed. A.DC.) 11: 387. 1847.
W India.

Justicia tukuchensis V.A. W. Graham in J. Jap. Bot. 56: 117. 1981 & in Kew Bull. 43: 594. 1988.
C Himalaya.

Justicia vahlii Roth, Nov. pl. sp. 14. 1821; Gamble, Fl. Madras 2: 757. 1967 (Repr.).
Rostellularia vahlii (Roth) Nees in Wall., Pl. asiat. rar. 3: 102. 1832.
Justicia diffusa var. *vahlii* (Roth) C.B. Clarke in Hook.f., Fl. Brit. India 4: 538. 1885.
var. **vahlii**.
Throughout India.

var. **rupicola** (J.L. Ellis) Karthik. & Moorthy comb.nov.
Rostellularia vahlii var. *rupicola* J.L. Ellis in Bull. Bot. Surv. India 11: 435. (1969) 1972.
E Ghats (Andhra Pradesh).

Justicia vasculosa (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 515. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 533. 1885.
Adhatoda vasculosa Nees in Wall., Pl. asiat. rar. 3: 104. 1832.
Manantheс vasculosa (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 45 (2): 59. 1948.
Andaman & Nicobar Islands, E Himalaya, NE India.

Justicia virgata T. Anderson in J. Linn. Soc., Bot. 9: 516. 1867.
Dianthera virgata (T. Anderson) Benth. in Benth. & Hook.f., Gen. pl. 2: 1114. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 542. 1885.
E & NE India, E Himalaya.

Justicia wynaadensis (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 515. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 533. 1885; Ramamoorthy in C.J. Saldanha & Nicolson, Fl. Hassan dist. 552. 1976.
Gendarussa wynaadensis Nees in Wall., Pl. asiat. rar. 3: 104. 1832.
Adhatoda wynaadensis (Nees) Nees in DC., Prodr. (Ed. A. DC.) 11: 406. 1847; Wight, Icon. pl. Ind. orient. t. 1545. 1850.
Peninsular India.

Species not seen by C.B.Clarke & not reported since:
Justicia biflora Vahl, Symb. bot. 2: 9. 1791; C.B. Clarke in Hook.f., Fl. Brit. India 4: 539. 1885.
India; *Schumacher*.

LEPIDAGATHIS Willd., Sp. pl. 3: 400. 1800.

Lepidagathis balakrishnanii Remadevi & Binojk. in J. Econ. Taxon. Bot. 32: 554, f. 1. 2008.
SW Ghats (Kerala).

Lepidagathis bandraensis Blatt. in J. & Proc. Asiat. Soc. Bengal 26: 347. (1930) 1931; Bhandari, Fl. ind. des. 305. 1978.
Maharashtra, Rajasthan.

Lepidagathis barberi Gamble in Bull. Misc. Inform. 1923: 375. 1923 & Fl. Madras 2: 1067. 1924 (2: 747. 1967, Repr.).
S India.

Lepidagathis chlorostachya Nees in DC., Prodr. (Ed. A. DC.) 11: 256. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 519. 1885; Pandur. & V.J. Nair in Indian J. Forest. 17: 178, f. 1, A-I. 1994.
Kerala.

Lepidagathis clavata Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 340. 1850. C.B. Clarke in Hook.f., Fl. Brit. India 4: 518. 1885.
NW Ghats (Maharashtra).

Lepidagathis cristata Willd., Sp. pl. 3: 400. 1800; Wight, Icon. pl. Ind. orient. t. 455. 1841 & Ill. Ind. Bot. t. 164, f. 5. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 516. 1885.
var. **cristata**.
NE & Peninsular India.

var. **rupestris** (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 516. 1885.
Lepidagathis rupestris Nees in Wall., Pl. asiat. rar. 3: 96. 1832.
Coromandel Coast ?

Lepidagathis cuspidata Nees in Wall., Pl. asiat. rar. 3: 97. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 519. 1885.
Ruellia cuspidata Wall., Numer. List 2405. 1830.
Throughout tropical India.

Lepidagathis diffusa C.B. Clarke in Hook.f., Fl. Brit. India 4: 518. 1885.
S India.

Lepidagathis fasciculata (Retz.) Nees in Wall., Pl. asiat. rar. 3: 95. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 522. 1885.
Ruellia fasciculata Retz., Observ. bot. 4: 28. 1786.
Lepidagathis goensis Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 340. 1850.
Throughout tropical & subtropical India.

Lepidagathis hamiltoniana Wall. ex Nees in Wall., Pl. asiat. rar. 3: 96. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 516. 1885.
E, N & S India.

Lepidagathis incurva Buch.-Ham. ex D. Don, Prodr. fl. nepal. 119. 1825; Santapau in Bot. Mem. Univ. Bombay 2: 74. 1952.
Lepidagathis hyalina Nees in Wall., Pl. asiat. rar. 3: 95. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 521. 1885.
var. **incurva**.
E Himalaya & throughout plains of India.

var. **aristata** (C.E.C. Fisch.) H.B. Naithani & S. Biswas in H.B. Naithani, Fl. pl. India, Nepal & Bhutan 334. 1990.
Lepidagathis hyalina var. *aristata* C.E.C. Fisch. in Bull. Misc. Inform. 1932: 201. 1932.
Meghalaya.

var. **lophostachyoides** (Nees) B. D. Sharma, N.P. Singh, Sundararagh. & Deshp., Fl. Karnataka anal. 209. 1984.
Lepidagathis hyalina var. *lophostachyoides* Nees in DC., Prodr. (Ed. A.DC.) 11: 252. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 521. 1885.
Karnataka.

var. **mollis** (C.B.Clarke) Raizada & H.O. Saxena in Indian Forester 92: 315. 1966 & Fl. Mussoorie 1: 542. 1978.
Lepidagathis hyalina var. *mollis* C.B. Clarke in Hook.f., Fl. Brit. India 4: 521. 1885.
Throughout N India, terai Himalaya.

var. **mucronata** (Nees) C.B. Clarke ex T. Cooke, Fl. Bombay 2: 397. 1904 (2: 475. 1967, Repr.).
Lepidagathis mucronata Nees in Wall., Pl. asiat. rar. 3: 95. 1832.
Lepidagathis hyalina var. *mucronata* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 521. 1885.
Peninsular India.

var. **semiherbacea** (Nees) Karthik. & Moorthy comb.nov.
Lepidagathis semiherbacea Nees in Wall., Pl. asiat. rar. 3: 96. 1832.
Lepidagathis hyalina var. *semiherbacea* (Nees) C. B. Clarke in Hook.f., Fl. Brit. India 4: 521. 1885.
E Himalaya, NE India.

var. **ustulata** (Nees) Raizada & H.O. Saxena in Indian Forester 92: 315. 1966 & Fl. Mussoorie 1: 542. 1978.
Lepidagathis ustulata Nees in Wall., Pl. asiat. rar. 3: 95. 1832.
Lepidagathis hyalina var. *ustulata* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 521. 1885.
NW Himalaya.

Lepidagathis keralensis Madhus. & N.P. Singh in Kew Bull. 47: 301. 1992.
Kerala.

Lepidagathis lutea Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 139. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 517. 1885.
NW Ghats (Maharashtra); Rajasthan.

Lepidagathis mitis Dalzell in Hooker's J. Bot. Kew Gard. Misc. 3: 226. 1851; C.B. Clarke in Hook.f., Fl. Brit. India 4: 516. 1885.
Peninsular India.

Lepidagathis prostrata Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 138. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 518. 1885.
Karnataka, Maharashtra, subtropical W Himalaya.

Lepidagathis pungens Nees in Wall., Pl. asiat. rar. 3: 97. 1832; Wight, Icon. pl. Ind. orient. t. 456. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 517. 1885.
Tamilnadu.

Lepidagathis purpuricaulis Nees in Wall., Pl. asiat. rar. 3: 96. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 519. 1885.
C E & N India, subtropical W Himalaya.

Lepidagathis rigida Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 341. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 518. 1885.
NE India, NW Ghats (Maharashtra).

Lepidagathis scariosa Nees in Wall., Pl. asiat. rar. 3: 95. 1832; Wight, Icon. pl. Ind. orient. t. 457. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 520. 1885.
S India.

Lepidagathis spinosa Wight ex Nees in Wall., Pl. asiat. rar. 3: 97. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 517. 1885.
S India.

Lepidagathis subarmata (C.B. Clarke) Gamble, Fl. Madras 1067. 1924 (2: 747. 1967, Repr.).
Lepidagathis mitis var. *subarmata* C.B. Clarke in Hook.f., Fl. Brit. India 4: 516. 1885.
Peninsular India.

Lepidagathis submitis Blatt. in J. Proc. Asiat. Soc. Bengal 1930, n.s. 26: 349. 1931.
Tamilnadu.

Lepidagathis trinervis Nees in Wall., Pl. asiat. rar. 3: 96. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 517. 1885.
var. **trinervis**.
C E & W India, Himalayas, Upper Gangetic Plains.

var. **asperrima** T. Anderson ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 517. 1885.
Maharashtra.

LEPTOSTACHYA Nees in Wall., Pl. asiat. rar. 3: 76, 105. 1832.

Leptostachya wallichii Nees in Wall., Pl. asiat. rar. 3: 105. 1832 & in DC., Prodr. (Ed. A. DC.) 11: 379. 1847; Wight, Icon. pl. Ind. orient. t. 1543. 1850; B. Hansen in Nord. J. Bot. 5: 472. 1985.
Dianthera leptostachya C.B. Clarke in Hook.f., Fl. Brit. India 4: 542. 1885.
Dianthera debilis C.B. Clarke in Hook.f., Fl. Brit. India 4: 542. 1885 non Forssk., 1775.
Leptostachya debilis (C.B. Clarke) C.B. Clarke & Stapf ex Hosseus in Bot. Jahrb. Syst. 41: 73. 1907.
Justicia neodebilis Bennet in Indian Forester 109: 219. 1983.
E Himalaya, NE India, SW Ghats.
Note: See Y.F. Deng & N.H. Xia's note regarding the conservation of the generic name in Taxon 54: 192. 2005.

MEYENIA Nees in Wall., Pl. asiat. rar. 3: 75, 78. 1832.

Meyenia hawtayneana (Wall.) Nees in Wall., Pl. asiat. rar. 3: 78. 1832; T. Cooke, Fl. Bombay 2: 419. 1967 (Repr.).
Thunbergia hawtayneana Wall., Cent fl. napal. 49. 1826 in note; C.B. Clarke in Hook.f., Fl. Brit. India 4: 391. 1884.
SW Ghats (Karnataka, Tamilnadu).

MONOTHECIUM Hochst. in Flora 26: 74. 1842.

Monothecium aristatum (Nees) T. Anderson in Thwaites, Enum. pl. zeyl. 234. 1860; C.B. Clarke in Hook.f., Fl. Brit. India 4: 524. 1885.
Anthocometes aristatus Nees in Wall., Pl. asiat. rar. 3: 88. 1832.
Nilgiris.

NELSONIA R. Br., Prodr. 480. 1810.

Nelsonia canescens (Lam.) Spreng. in Syst. veg. 1: 42. 1825; E. Hossain in Willdenowia 14: 402. 1984.
Justicia canescens Lam., Tabl. encycl. 1: 41. 1791.
Nelsonia campestris R. Br., Prodr. 481. 1810; C.B. Clarke in Hook.f., Fl. Brit. India 4: 394. 1884.
var. **canescens**.
Throughout India including Andaman & Nicobar Islands.

var. **vestita** (Schult.) E. Hossain in Willdenowia 14: 403. 1984.
Justicia vestita Schult., Mant. 1: 145. 1822.
Nelsonia campestris var. *vestita* (Schult.) C.B. Clarke in Hook.f., Fl. Brit. India 4: 395. 1884.
W Bengal ?

NEURACANTHUS Nees in Wall., Pl. asiat. rar. 3: 76, 97. 1832.

Neuracanthus neesianus (Wight ex T. Anderson) C.B. Clarke in Hook.f., Fl. Brit. India 4: 491. 1884.
Lepidagathis neesiana Wight ex T. Anderson in J. Linn. Soc., Bot. 9: 499. 1867.
Tamilnadu.

Neuracanthus sphaerostachyus (Nees) Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 140. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 491. 1884.
Lepidagathis sphaerostachya Nees in DC., Prodr. (Ed. A.DC.) 11: 254. 1847.
Neuracanthus lawii Wight, Icon. pl. Ind. orient. t. 1531. 1850.
Peninsular India, Rajasthan.

Neuracanthus tetragonostachyus Nees in Wall., Pl. asiat. rar. 3: 97. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 491. 1884; Haines, Forest fl. Chota Nagpur 454. 1910; Bidgood & Brummitt in Kew Bull. 53: 14. 1998.
ssp. **tetragonostachyus**.
Jharkhand (Rajmahal Hills).

ssp. **trinervius** (Wight) Bidgood & Brummitt in Kew Bull. 53: 16. 1998.
Neuracanthus trinervius Wight, Icon. pl. Ind. orient. t. 1532. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 491. 1884.
Gujarat, Karnataka, Maharashtra.
Note: Santapau (in Bot. Mem. Univ. Bombay 2: 66. 1952) comments that probably *Neuracanthus trinervius* Wight may not be different from *N. tetragonostachyus* Nees. His reason for treating them as different species was that while the former species seemed to be endemic to 'Bombay' (sic), the latter was endemic to Burma and there were no intermediate or connective forms or localities. Santapau, it would appear, was unaware of Haines' report.

PETALIDIUM Nees in Wall., Pl. asiat. rar. 3: 75, 82. 1832.

Petalidium barlerioides (Roth) Nees in Wall., Pl. asiat. rar. 3: 82. 1832 ; C. B. Clarke in Hook.f., Fl. Brit. India 4: 416. 1884.
Ruellia barlerioides Roth, Nov. pl. sp. 319. 1821.
Throughout India.

PHAULOPSIS Willd., Sp. pl. 3: 4, 342. 1800 ('Phaylopsis'); corr. Spreng., Anleit. Kenntn. Gew. ed. 2. 2: 422. 1817, nom. & orth. cons.

Phaulopsis imbricata (Forssk.) Sweet, Hort. brit. 327. 1827; Bennet in Indian J. Forest. 1; 24. 1978.
Ruellia imbricata Forssk., Fl. aegypt.-arab. 113. 1775.
Ruellia dorsiflora Retz., Observ. bot. 6: 31. 1791.
Micranthus oppositifolius J.C. Wendl., Bot. Beob. 39. 1798.
Phaulopsis parviflora Willd., Sp. pl. 3: 342. 1800; C.B. Clarke in Hook.f., Fl. Brit. India 4: 417. 1884.
Aetheilema reniforme Nees in Wall., Pl. asiat. rar. 3: 94. 1832; Wight, Icon. pl. Ind. orient. t. 1533. 1850.
Phaulopsis oppositifolia (J. C. Wendl.) Lindau in Engl. & Prantl, Nat. Pflanzenfam. I. 1, 148: 305. 1897.
Micranthus dorsiflorus (Retz.) C.E.C. Fisch. in Bull. Misc. Inform. 1932: 63. 1932.
Phaulopsis dorsiflora (Retz.) Santapau in Kew Bull. 1948: 276. 1948.
Throughout India.

PHIALACANTHUS Benth. in Benth. & Hook.f., Gen. pl. 2: 1102. 1876.

Phialacanthus griffithii Benth. ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 523. 1885.
E Himalaya

PHLOGACANTHUS Nees in Wall., Pl. asiat. rar. 3: 76, 99. 1832.
DIOTACANTHUS Benth. in Benth. & Hook.f.,Gen. pl. 2: 1100. 1876.

Phlogacanthus albiflorus Bedd., Icon. pl. Ind. or. t. 180. 1874.
Diotacanthus albiflorus (Bedd.) Benth. in Benth. & Hook.f., Gen. pl. 2: 1101. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 515. 1885.
SW Ghats (Tamilnadu).

Phlogacanthus curviflorus (Wall.) Nees in Wall., Pl. asiat. rar. 3: 99. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 511. 1884.
Justicia curviflora Wall., Pl. asiat. rar. 2: 9, t. 112. 1830.
E & NE India.

Phlogacanthus gomezii (Nees) J. R. I. Wood in Edinburgh J. Bot. 51: 182. 1994.
Loxanthus gomezii Nees in Wall., Pl. asiat. rar. 3: 99. 1832.
Phlogacanthus wallichii C.B. Clarke in Hook.f., Fl. Brit. India 4: 511. 1884.
NE India.

Phlogacanthus gracilis T. Anderson ex Burkill in Rec. Bot. Surv. India 10: 336. 1924.
Arunachal Pradesh.

Phlogacanthus grandis Bedd., Icon. pl. Ind. or. t. 179. 1874.
Diotacanthus grandis (Bedd.) Benth. in Benth. & Hook. f., Gen. pl. 2: 1101. 1876; C.B. Clarke in Hook. f., Fl. Brit. India 4: 515. 1885.
SW Ghats (Kerala, Tamilnadu).

Phlogacanthus guttatus (Wall.) Nees in Wall., Pl. asiat. rar. 3: 99. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 512. 1884.
Justicia guttata Wall., Pl. asiat. rar. 1: 24, t. 28. 1830.
NE India.

Phlogacanthus jenkinsii C.B. Clarke in Hook.f., Fl. Brit. India 4: 513. 1885.
Assam.

Phlogacanthus lambertii Raizada in Indian Forester 60: 534. 1934.
W Himalaya.

Phlogacanthus parviflorus T. Anderson in J. Linn. Soc., Bot. 9: 506. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 512. 1884.
NE India.

Phlogacanthus pubinervius T. Anderson in J. Linn. Soc., Bot. 9: 508. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 513. 1885.
E Himalaya, NE India.

Phlogacanthus quadrangularis (Hook.) Heine in Bull. Mus. Natl. Hist. Nat. (Paris) 4e ser. 10, sect. B, Adansonia No. 2: 148. 1988.
Justicia quadrangularis Hook. in Curtis, Bot. Mag. (Ed. Hook.) 55: t. 2845. 1828 & in Edwards' Bot. Reg. (Ed. Lindl.) 16: t. 1340. 1830 - 1831.
Justicia asperula Lodd., Bot. Cab. 17, t. 1681. 1831.
Phlogacanthus vitellinus (Roxb.) T. Anderson in J. Linn. Soc., Bot. 9: 507. 1867.
Phlogacanthus asperulus (Lodd.) Nees in Wall., Pl. asiat. rar. 3: 99. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 512. 1884.
NE India.

Phlogacanthus thyrsiformis (Roxb. ex Hardw.) Mabb. in Mantal, Bot. & hist. hort. malab. 83. 1980.
Justicia thyrsiformis Roxb. ex Hardw. in Asiat. Res. 6: 349. 1799.
Justicia thyrsiflorus Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 116. 1820.
Phlogacanthus thyrsiflorus (Roxb.) Nees in Wall., Pl. asiat. rar. 3: 99. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 512. 1884.
E & NE India, Subtropical Himalayas, Upper Gangetic Plains.

Phlogacanthus tubiflorus Nees in Wall., Pl. asiat. rar. 3: 99. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 511. 1884.
NE India.

PSEUDERANTHEMUM Radlk. in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München. 13: 282. 1883.
ERANTHEMUM sensu C. B. Clarke in Hook. f., Fl. Brit. India 4: 497. 1884 p.p. non L., 1753.

Pseuderanthemum album (Roxb.) Merr. in J. Malayan Branch Roy. Asiat. Soc. 1: 37. 1923; K.S. Sriniv. in Bull. Bot. Surv. India 2: 20. 1960.
Justicia alba Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 116. 1820.
Eranthemum album (Roxb.) Nees in DC., Prodr. (Ed. A.DC.) 11: 455. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 498. 1884.
Andaman & Nicobar Islands, Arunachal Pradesh.

Pseuderanthemum bicolor (Schrank) Radlk. ex Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b: 330, f. 133, A D. 1895; Santapau in Bot. Mem. Univ. Bombay 2: 70. 1952.
Eranthemum bicolor Schrank, Pl. rar. hort. monac. t. 8. 1819; T. Cooke, Fl. Bombay 2: 468. 1967 (Repr.).
W India (Cultivated).

Pseuderanthemum crenulatum (Lindl.) Radlk. in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München 13: 282. 1883; Kanjilal et al., Fl. Assam 3: 449. 1939.

Eranthemum crenulatum Lindl. in Bot. Reg. (Ed. Ker Gawl.) 11: t. 879. 1825; C. B. Clarke in Hook.f., Fl. Brit. India 4: 497. 1884.
NE India.

Pseuderanthemum indicum (Nees) A.M. Cowan & Cowan, Trees N. Bengal 98. 1929.
Thyrsacanthus indicus Nees in DC., Prodr. (Ed. A.DC.) 11: 325. 1847.
Eranthemum indicum (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 497. 1884.
Mackaya indica (Nees) Ensermu in Kew Bull. 47: 673. 1992.
E Himalaya, NE India.

Pseuderanthemum lapathifolium (Vahl) B. Hansen in Nord. J. Bot. 9: 214. 1989.
Justicia lapathifolia Vahl, Enum. pl. 1: 126. 1804.
Eranthemum lapathifolium (Vahl) Nees in DC., Prodr. (Ed. A.DC.) 11: 454. 1847.
Nicobar Islands, Peninsular India.

Pseuderanthemum latifolium (Vahl) B. Hansen in Nord. J. Bot. 9: 213. 1989.
Justicia latifolia Vahl, Symb. bot. 2: 4. 1791.
Justicia palatifera Wall., Pl. asiat. rar. 1: 80, t. 92, f. 1-3. 1830.
Eranthemum palatiferum (Wall.) Nees in Wall., Pl. asiat. rar. 3: 108. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 498. 1884.
Pseuderanthemum palatiferum (Wall.) Radlk. in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München 13: 286. 1884.
Antheliacanthus micranthus Ridl. in J. Fed. Malay States Mus. 10: 109. 1920.
var. **latifolium**.
Peninsular India.

var. **levicapsa** (C.B. Clarke) Karthik. & Moorthy comb. nov.
Eranthemum palatiferum var. *levicapsa* C.B. Clarke in Hook.f., Fl. Brit. India 4: 498. 1884; C.E.C. Fisch. in Rec. Bot. Surv. India 12 (2): 120. 1938.
Pseuderanthemum palatiferum var. *levicapsa* (C.B. Clarke) Kanjilal et al., Fl. Assam 3: 449. 1939.
NE India.

Pseuderanthemum leptanthum (C.B.Clarke) Lindau in Engl. & Prantl, Nat. Pflanzenfam. IV, 3b : 330. 1895; B. Hansen in Nord. J. Bot. 5: 228. 1985.
Eranthemum leptanthus C.B. Clarke in Hook.f., Fl. Brit. India 4: 500. 1884.
E Himalaya. (Mishmee Hills).

Pseuderanthemum malabaricum (C.B.Clarke) Gamble, Fl. Madras 1064. 1924 (2: 745. 1967, Repr.).
Eranthemum malabaricum C.B. Clarke in Hook.f., Fl. Brit. India 4: 497. 1884.
Peninsular India.

RHINACANTHUS Nees in Wall., Pl. asiat. rar. 3: 76, 108. 1832.

Rhinacanthus calcaratus (Wall.) Nees in Wall., Pl. asiat. rar. 3: 109. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 541. 1885.
Justicia calcarata Wall., Pl. asiat. rar. 2: 9, t. 113. 1830.
NE India.

Rhinacanthus grandiflorus Dunn in Bull. Misc. Inform. 1920: 135. 1920.
E Himalaya.

Rhinacanthus nasutus (L.) Kurz in J.Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 39: 79. 1870; Santapau in Bot. Mem. Univ. Bombay 2: 92. 1952.
Justicia nasuta L., Sp. pl. 16. 1753.

Rhinacanthus communis Nees in Wall., Pl. asiat. rar. 3: 109. 1832 nom. illeg. (incl. type of *Justicia nasuta* L., 1753); C.B. Clarke in Hook.f., Fl. Brit. India 4: 541. 1885.
var. **nasutus.**
Throughout India.

var. **montanus** (C.B.Clarke) N.P. Balakr. in J. Bombay Nat. Hist. Soc. 63: 329. 1966.
Rhinacanthus communis var. *montanus* C.B. Clarke in Hook.f., Fl. Brit. India 4: 541. 1885.
S India.

RUELLIA L., Sp. pl. 634. 1753; Durkee in Ann. Missouri Bot. Gard. 65: 254. 1978.
DIPTERACANTHUS Nees in Wall., Pl. asiat. rar. 3: 75, 81. 1832.

Ruellia beddomei C.B. Clarke in Hook.f., Fl. Brit. India 4: 413. 1884.
Dipteracanthus beddomei (C.B. Clarke) Santapau in Indian Forester 79: 322. 1953.
C & E India; Upper Gangetic Plains.

Ruellia cernua Roxb., Fl. ind. (Ed. Carey) 3: 45. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 413. 1884.
Dipteracanthus cernuus (Roxb.) Santapau in Indian Forester 79: 322. 1953.
C to E & S India, Upper Gangetic Plains.

Ruellia ciliatiflora Hook. in Curtis, Bot. Mag. (Ed. Hook.) 66: t. 3718. 1839; H.B. Naithani in Indian J. Forest. 4: 235. 1981.
Uttarakhand (Dehra Dun).

Ruellia malabarica Kostel., Allg. med.- pharm. Fl. 3: 925. 1834; A. W. Hill, Index kew. suppl. 9: 243. 1958 (Repr.).
Kerala.

Ruellia patula Jacq., Misc. austriac. 2: 358. 1781; C.B. Clarke in Hook.f., Fl. Brit. India 4: 412. 1884.
Dipteracanthus patulus (Jacq.) Nees in Wall., Pl. asiat. rar. 3: 81. 1832; Wight, Icon. pl. Ind. orient. t. 1505. 1850.
var. **patula**.
Throughout India.

var. **alba** Saxton in Rec. Bot. Surv. India 6: 288. 1918.
Dipteracanthus patulus var. *alba* (Saxton) Bhandari in Bull. Bot. Surv. India 6: 327. 1964 & Fl. ind. des. 301. 1978.
Gujarat, Rajasthan.

Ruellia prostrata Poir. in Lam., Encycl. 6: 349. 1804; Bedd., Fl. sylv. S. India t. 282. 1872; C.B. Clarke in Hook.f., Fl. Brit. India 4: 411. 1884.
Dipteracanthus prostratus (Poir.) Nees in Wall., Pl. asiat. rar. 3: 81. 1832.
Dipteracanthus dejectus Nees in Wall., Pl. asiat. rar. 3: 82. 1832.
Ruellia prostrata var. *dejecta* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 412. 1884.
Throughout India.

Ruellia pseudopatula Ensermu in Kew Bull. 57: 747, f.1. 2002.
NW India (Haryana, Punjab).

Ruellia sivarajanii Sreedevi, Remadevi & Binojk. in J. Econ. Taxon. Bot. 27 (Suppl.): 1186, f. 1, A - D. 2003.
Kerala.

Ruellia suffruticosa Roxb., Fl. ind. (Ed. Carey) 3: 53. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 413. 1884.
Dipteracanthus sibua Nees in Wall., Pl. asiat. rar. 3: 81. 1832.
Dipteracanthus suffruticosus (Roxb.) Voigt, Hort. suburb. Calcutt. (Ed. Griff.) 483. 1845.
Andaman & Nicobar Islands, E India, Upper Gangetic Plains.

Ruellia tuberosa L., Sp. pl. 635. 1753; Prain, Bengal pl. 2: 599. 1963 (Repr.).
Naturalised throughout India.

C.B. Clarke in Hook.f., Fl. Brit. India referred these as *'Doubtful species'*:
Ruellia ? glandulosa Roth, Nov. pl. sp. 312. 1821; C.B. Clarke in Hook.f., Fl. Brit. India 4: 414. 1884.
India (Madras ?), B. Heyne.

Ruellia ? involucrata Vahl, Symb. bot. 3: 83. 1794; C.B. Clarke in Hook.f., Fl. Brit. India 4: 414. 1884.
India (Madras ?), J. König.

RUNGIA Nees in Wall., Pl. asiat. rar. 3: 77, 109. 1832.

Rungia apiculata Bedd., Icon. pl. Ind. or. t. 247. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 548. 1885.
var. **apiculata**.
SW Ghats (Tamilnadu).

var. **compta** C.B. Clarke in Hook.f., Fl. Brit. India 4: 549. 1885.
Kerala.

Rungia crenata T. Anderson in J. Linn. Soc., Bot. 9: 518. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 547. 1885.
Peninsular India.

Rungia elegans Dalzell & A. Gibson, Bombay fl. 196. 1861; C.B. Clarke in Hook.f., Fl. Brit. India 4: 549. 1885.
N W & Peninsular India.

Rungia himalayensis C.B. Clarke in Hook.f., Fl. Brit. India 4: 548. 1885.
E Himalaya.

Rungia khasiana T. Anderson in J. Linn. Soc., Bot. 9: 518. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 548. 1885.
Meghalaya.

Rungia laeta C.B. Clarke in Hook.f., Fl. Brit. India 4: 546. 1885.
Tamilnadu.

Rungia linifolia Nees in Wall., Pl. asiat. rar. 3: 110. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 548. 1885.
Rostellularia gracilis Wight, Icon. pl. Ind. orient. t. 1541. 1850.
Peninsular India, Rajasthan.

Rungia longifolia Nees & Arn. ssp. **latior** (Nees) L.H. Cramer in Kew Bull. 51: 556. 1996.
Rungia latior Nees in Companion Bot. Mag. 2: 313. 1836 & in DC., Prodr. (Ed. A.DC.) 11: 472. 1847; Wight, Icon. pl. Ind. orient. t. 1548. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 546. 1885; J. R. I. Wood in Edinburgh J. Bot. 51: 114. 1994.
Rungia longifolia var. *latifolia* Wight ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 547. 1885.
var. latior.
SW Ghats (Kerala, Tamilnadu).

var. **anamalayana** (Chandrab. & V. Chandras.) Karthik. & Moorthy comb. nov.
Rungia latior var. *anamalayana* Chandrab. & V. Chandras. in J. Bombay Nat. Hist. Soc. 84: 722, f. 1, a-j. (1987) 1988.
SW Ghats (Tamilnadu).

Rungia mastersii T. Anderson in J. Linn. Soc., Bot. 9: 519. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 550. 1885.
Assam.

Rungia muralis Nees in DC., Prodr. (Ed. A.DC.) 11: 470. 1847; Oza in Indian Forester 103: 157. 1977.
Rungia parviflora var. *muralis* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 550. 1885.
Throughout India.

Rungia parviflora (Retz.) Nees in Wall., Pl. asiat. rar. 3: 110. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 550. 1885.
Justicia parviflora Retz., Observ. bot. 5: 9. 1788.
var. **parviflora**.
Throughout India including Himalayas.

var. **ciliata** Bremek. in Dansk. Bot. Ark. 20: 88. 1961; K.S. Sriniv. & V.S. Agarwal in Bull. Bot. Surv. India 5: 80. 1963.
India ?

var. **monticola** Gamble, Fl. Madras 1072. 1924 (2: 750. 1967, Repr.).
Andhra Pradesh, Kerala.

Rungia pectinata (L.) Nees in DC., Prodr. (Ed. A.DC.) 11: 470. 1847; Wight, Icon. pl. Ind. orient. t. 1547. 1850; Santapau in Bot. Mem. Univ. Bombay 2: 77. 1952.
Justicia pectinata L., Amoen. acad. 4: 299. 1759.
Rungia parviflora var. *pectinata* (L.) C.B. Clarke in Hook.f., Fl. Brit. India 4: 550. 1885.
Throughout India including Andaman & Nicobar Islands.

Rungia repens (L.) Nees in Wall., Pl. asiat. rar. 3: 110. 1832; Wight, Icon. pl. Ind. orient. t. 465. 1841; C.B. Clarke in Hook.f., Fl. Brit. India 4: 549. 1885.
Justicia repens L., Sp. pl. 15. 1753.
Throughout India.

Rungia sisparensis T. Anderson in J. Linn. Soc., Bot. 9: 518. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 546. 1885.
SW Ghats (Kerala, Tamilnadu).

Rungia wightiana Nees in Wall., Pl. asiat. rar. 3: 110. 1832; Wight, Icon. pl. Ind. orient. t. 1549. 1849; C.B. Clarke in Hook.f., Fl. Brit. India 4: 546. 1885.
SW Ghats (Tamilnadu).

SPHINCTACANTHUS Benth. in J. Bot. (Hooker) 3: 212. 1841.

Sphinctacanthus griffithii (T. Anderson) Benth. in Benth. & Hook. f., Gen. pl. 2: 1118. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 4: 544. 1885; B. Hansen in Nord. J. Bot. 5: 226, f. 1. 1985.
Justicia griffithii T. Anderson in J. Linn. Soc., Bot. 9: 516. 1867.
Dianthera griffithii (T. Anderson) C.B. Clarke in Hook.f., Fl. Brit. India 4: 542. 1885.
E Himalaya.

STAUROGYNE Wall., Pl. asiat. rar. 2: 80, t. 186. 1831.
EBERMAIERA Nees in Wall., Pl. asiat. rar. 3: 75, 80. 1832.

Staurogyne argentea Wall., Pl. asiat. rar. 3: 80. 1832; C. E. C. Fisch. in Rec. Bot. Surv. India 12: 121. 1938.
Ebermaiera staurogyne Nees in DC., Prodr. (Ed. A. DC.) 11: 75. 1847; C. B. Clarke in Hook.f., Fl. Brit. India 4: 398. 1884.
Andaman & Nicobar Islands, NE India.

Staurogyne glutinosa (Wall. ex C.B. Clarke) Kuntze, Revis. gen. pl. 2: 497. 1891; Duthie, Fl. Gangetic plain 2: 53. 1960 (Repr.); Tandyek. & P. Mathew in Rheedea 5: 60. 1995.
Ebermaiera glutinosa Wall. ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 396. 1884.
C E NE & S India, Upper Gangetic Plains.

Staurogyne incana (Blume) Kuntze, Revis. gen. pl. 2: 497. 1891; Bremek. in Reinwardtia 3: 191. 1955.
Ruellia incana Blume, Catalogus 85. 1821.
Ebermaiera incana (Blume) Hassk., Cat. hort. bot. bogor. 147. 1844; C.B. Clarke in Hook.f., Fl. Brit. India 4: 397. 1884.
Andaman Islands ?

Staurogyne longifolia (Nees) Kuntze, Revis. gen. pl. 2: 497. 1891; Bremek. in Reinwardtia 3: 200. 1955.
Ebermaiera longifolia Nees in DC., Prodr. (Ed. A.DC.) 11: 76. 1847.
Ebermaiera lanceolata sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 397. 1884 non Hassk., 1844.
Andaman Islands ?

Staurogyne paniculata (Wall. ex T. Anderson) Kuntze, Revis. gen. pl. 2: 497. 1891.
Ebermaiera paniculata Wall. ex T. Anderson in J. Linn. Soc., Bot. 9: 453. 1867; C. B. Clarke in Hook. f., Fl. Brit. India 4: 401. 1884.
var. **paniculata**.
NE India.

var. **glabrior** (C.B. Clarke) Karthik. & Moorthy comb. nov.
Ebermaiera paniculata var. *glabrior* C.B. Clarke in Hook. f., Fl. Brit. India 4: 401. 1884.
NE India.

Staurogyne perpusilla A.N. Henry & N.P. Balakr. in Bull. Bot. Surv. India 3: 205, ff. 1-4. (1961) 1962.
Madhya Pradesh.

Staurogyne polybotrya (Nees) Kuntze, Revis. gen. pl. 2: 497. 1891; Haines, Bot. Bihar Orissa 2: 701. 1961 (Repr.).
Ebermaiera polybotrya Nees in DC., Prodr. (Ed. A. DC.) 11: 74. 1847; C. B. Clarke in Hook. f., Fl. Brit. India 4: 396. 1884.
E & NE India, E Himalaya.

Staurogyne simonsii (T. Anderson) Kuntze, Revis. gen. pl. 2: 497. 1891; Kanjilal et al., Fl. Assam 3: 412. 1939.
Ebermaiera simonsii T. Anderson in J. Linn. Soc., Bot. 9: 451. 1867; C. B. Clarke in Hook.f., Fl. Brit. India 4: 399. 1884.
Meghalaya.

Staurogyne spatulata (Blume) Koord., Exkurs.-Fl. Java 3: 211. 1912; Bremek. in Reinwardtia 3: 170. 1955; J. R. I. Wood in Edinburgh J. Bot. 51: 105. 1994.
Adenosma spatulata Blume, Bijdr. 757. 1826.
Ebermaiera glauca Nees in Companion Bot. Mag. 2: 310. 1836; C. B. Clarke in Hook. f., Fl. Brit. India 4: 395. 1884.
Ebermaiera glauca var. *spatulata* (Blume) C. B. Clarke in Hook. f., Fl. Brit. India 4: 396. 1884.
Staurogyne glauca (Nees) Kuntze, Revis. gen. pl.2: 497. 1891; T. Cooke, Fl. Bombay 2: 421. 1967 (Repr.).
E NE & Peninsular India, Upper Gangetic Plains.

Staurogyne thyrsoidea (Nees) Kuntze, Revis. gen. pl. 2: 497. 1891; Kanjilal et al., Fl. Assam 3: 412. 1939.
Ebermaiera thyrsoidea Nees in Wall., Pl. asiat. rar. 3: 80. 1832; C. B. Clarke in Hook. f., Fl. Brit. India 4: 397. 1884.
NE India.

Staurogyne zeylanica (Nees) Kuntze, Revis. gen. pl. 2: 497. 1891; T. Cooke, Fl. Bombay 2: 422. 1967 (Repr.).
Ebermaiera zeylanica Nees in DC., Prodr. (Ed. A.DC.) 11: 74. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 397. 1884.
Andaman & Nicobar Islands, Peninsular India.

STENOSIPHONIUM Nees in Wall., Pl. asiat. rar. 3: 75, 84. 1832; Carine & Scotland in Bot. J. Linn. Soc. 133: 114. 2000.

Stenosiphonium cordifolium (Vahl) Alston in Trimen, Handb. fl. Ceylon 6: 226. 1931; Carine & Scotland in Bot. J. Linn. Soc. 133: 115. 2000.
Ruellia cordifolia Vahl, Symb. bot. 3: 84. 1794.
Stenosiphonium russellianum Nees in Wall., Pl. asiat. rar. 3: 84. 1832; Wight, Icon. pl. Ind. orient. t. 1503. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 427. 1884.
Stenosiphonium subsericeum Nees in Wall., Pl. asiat. rar. 3: 84. 1832.
Stenosiphonium confertum Nees in DC., Prodr. (Ed. A. DC.) 11: 105. 1847; Wight, Icon. pl. Ind. orient. t. 873. 1844-45; C.B. Clarke in Hook.f., Fl. Brit. India 4: 427. 1884.
Stenosiphonium russellianum var. *subsericeum* (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 464. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 427. 1884.
Stenosiphonium cordifolium var. *subsericeum* (Nees) L. H. Cramer in Dassan. & Clayton, Rev. handb. fl. Ceylon 12: 76. 1998.
S India.

Stenosiphonium setosum T. Anderson in J. Linn. Soc., Bot. 9: 464. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 427. 1884; Carine & Scotland in Bot. J. Linn. Soc. 133: 119. 2000.
Stenosiphonium parviflorum T. Anderson in J. Linn. Soc., Bot. 9: 464. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 428. 1884.
S India.

Stenosiphonium wightii Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 153. 1944; Carine & Scotland in Bot. J. Linn. Soc. 133: 121. 2000.
Stenosiphonium diandrum sensu Wight, Icon. pl. Ind. orient. t. 1502. 1850 non Nees, 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 426. 1884.
SW Ghats (Kerala, Tamilnadu).

STEPHANOPHYSUM Pohl, Pl. bras. icon. descr. 2: 83, tt. 155 & 156. 1830 - 1831.

Stephanophysum longifolium Pohl, Pl. bras. icon. descr. 2: 85, t. 156. 1830 - 1831; Babu, Herb. fl. Dehra Dun 393. 1977.
Uttarakhand (Cultivated & an escape in Dehra Dun).

STROBILANTHES Blume, Bijdr. 796. 1826.
RUTERAEA Nees in Wall., Pl. asiat. rar. 3: 75, 83. 1832.
PHLEBOPHYLLUM Nees in Wall., Pl. asiat. rar. 3: 75, 83. 1832.
COLLETTSIA Nees in Wall., Pl. asiat. rar. 3: 75, 87. 1832.
AECHMANTHERA Nees in Wall., Pl. asiat. rar. 3: 75, 87. 1832.
LEPTACANTHUS Nees in Wall., Pl. asiat. rar. 3: 75, 90. 1832.
STROBILANTHES subg. PTERACANTHUS Nees in Wall., Pl. asiat. rar. 3: 86. 1832.
STROBILANTHES subg. SYMPAGIS Nees in Wall., Pl. asiat. rar. 3: 87. 1832.

TRIAENACANTHUS Nees in DC., Prodr. (Ed. A.DC.) 11: 100, 169, 736. 1847 corr. Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 201. 1944 ('TRIAENANTHUS').
MACKENZIEA Nees in DC., Prodr. (Ed. A.DC.) 11: 308. 1847.
PSEUDOSTENOSIPHONIUM Lindau in Bot. Jahrb. Syst. 18: 52. 1893.
TARPHOCHLAMYS Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 156. 1944.
SERICOCALYX Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 157. 1944.
NILGIRIANTHUS Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 171. 1944.
TAENIANDRA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 175. 1944.
XENACANTHUS Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 176. 1944.
DIDYMOCANDRA Wight ex Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 177. 1944.
PLEOCAULUS Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 185. 1944.
CARVIA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 186. 1944.
THELEPAEPALE Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 187. 1944.
PSEUDARCHMANTHERA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 188. 1944.
DITRICHOSPERMUM Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 189. 1944.
RAPHICACANTHUS Bremek. in Verh. Kon. Ned. Akad. Wetensch. Afd. Natuurk. Tweede Sect. 41 (1): 190. 1944.
PERILEPTA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 193. 1944.
PTERACANTHUS (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 198. 1944.
PYRROTHRIX Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 209. 1944.
DOSSIFLUGA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 234. 1944.
DIFLUGOSSA Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 235. 1944.
LISTROBANTHES Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 253. 1944.
SYMPAGIS (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 254. 1944.
PARASYMPAGIS Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 255. 1944.
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SUPUSHPA Suryan. in Proc. Kon. Ned. Akad. Wetensch. ser. C, 73: 428. 1970.
KANJARUM Ramam. in Bull. Bot. Surv. India 13: 153. (1971) 1973.

Strobilanthes adnata C.B. Clarke in Hook.f., Fl. Brit. India 4: 436. 1884.
Endopogon decurrens Nees in DC., Prodr. (Ed. A. DC.) 11: 104. 1847.
Strobilanthes decurrens (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 470. 1867 non *Strobilanthes decurrens* Nees in DC., Prodr. (Ed. A. DC.) 11: 189. 1847.
Hymenochlaena decurrens (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 301. 1944.
NE & S India.

Strobilanthes affinis (Griff.) ~~Terao~~ ex J.R.I. Wood & J.R. Benn. apud J.R.I. Wood, J.R. Benn. & Scotland in Kew Bull. 58: 134. 2003.
Adenosma affinis Griff., Not. pl. asiat. 4: 133. 1854.
Strobilanthes acrocephala T. Anderson in J. Linn. Soc., Bot. 9: 473. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 454. 1884.
Tarphochlamys affinis (Griff.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 156. 1944.
NE India.

Strobilanthes amabilis C.B. Clarke in Hook.f., Fl. Brit. India 4: 476. 1884.
Leptacanthus amabilis (C.B.Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 184. 1944.
S W Ghats (Kerala,Tamilnadu).

Strobilanthes anamallaica J.R.I. Wood in Kew Bull. 50: 10. 1995.
Strobilanthes adenophora sensu Bedd., Icon. pl. Ind. or. 1: 53. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 440. 1884 non Nees, 1847.
Nilgirianthus beddomei Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 172. 1944.
SW Ghats.

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SW Ghats (Kerala/Tamilnadu).

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Andaman Islands.

Strobilanthes andersonii Bedd. in Madras J. Lit. Sci. ser. 3, 1: 55. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 4: 450. 1884.
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SW Ghats (Tamilnadu).

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Goldfussia edgeworthiana Nees in DC., Prodr. (Ed. A. DC.) 11: 173. 1847 non *Strobilanthes edgeworthiana* Nees, 1847.
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Goldfussia acuminata Shakya in J. Jap. Bot. 50: 99. 1975.
C & NW Himalaya, Sub Himalayan tracts, Upper Gangetic Plains.

Strobilanthes asymmetrica J.R.I. Wood & J.R. Benn. apud J.R.I. Wood et al. in Kew Bull. 58: 161, f. 13, A-M. 2003.
NE India.

Strobilanthes attenuata (Nees) Nees in DC., Prodr. (Ed. A.DC.) 11: 193. 1847; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 162. 1983; J.R.I. Wood in Edinburgh J. Bot. 51: 230. 1994.
Ruellia attenuata Nees in Wall., Pl. asiat. rar. 3: 83. 1832.
Strobilanthes alata Nees in DC., Prodr. (Ed. A.DC.) 11: 194. 1847 non Blume, 1826.
Strobilanthes reflexa Nees in DC., Prodr. (Ed. A.DC.) 11: 194. 1847; C. B. Clarke in Hook. f., Fl. Brit. India 4: 464. 1884.
Strobilanthes urticifolia Wall. ex Kuntze, Revis. gen. pl. 2: 499. 1891.
Pteracanthus attenuatus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
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ssp. **attenuata**.
Himalayas.

esp. **nepalensis** J.R.I. Wood in Edinburgh J. Bot. 51: 232. 1994.
C Himalaya.

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C E N & NE India, Subtropical Himalayas, Upper Gangetic Plains.

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SW Ghats (Karnataka, Kerala).

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Peninsular India.

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Dossifluga bheriensis Shakya in J. Jap. Bot. 50: 97. 1975.
C Himalaya.

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Didyplosandra bolumpattiana (Bedd.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 177. 1944 ('bolumputtensis').
SW Ghats (Tamilnadu).

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Nagaland

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C. to W. Himalaya.

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Sympagis brunoniana (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 254. 1944.
NE India.

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Carvia callosa (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1). 187. 1944; Santapau in Bot. Mem. Univ. Bombay 2: 46. 1952.
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Peninsular India, Rajasthan.

Strobilanthes calvata J.R.I. Wood in Edinburgh J. Bot. 51: 233. 1994.
Nagaland ?

Strobilanthes campaniformis J.R.I. Wood in Edinburgh J. Bot. 51: 235. 1994.
Arunachal Pradesh ?

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Nilgirianthus campanulatus (Wight) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 172. 1944.
Peninsular India.

Strobilanthes canarica Bedd., Icon. pl. Ind. or. t. 215. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 434. 1884.
Phlebophyllum canaricum (Bedd.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 169. 1944.
SW Ghats (Karnataka).

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Goldfussia capitata Nees in Wall., Pl. asiat. rar. 3: 88. 1832; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 231. 1944.
var. **capitata**.
NE India, Subtropical Himalayas.

var. **nitida** C.B. Clarke in Hook.f., Fl. Brit. India 4: 459. 1884.
Meghalaya.

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S India.

Strobilanthes ciliata Nees in Wall., Pl. asiat. rar. 3: 85. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 439. 1884.
Nilgirianthus ciliatus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 172. 1944.
Peninsular India.

Strobilanthes clarkei J.R.I. Wood in Edinburgh J. Bot. 51: 236. 1994.
Strobilanthes rhombifolia sensu C.B. Clarke in J. Linn. Soc., Bot. 25: 54. 1889 non C.B. Clarke in Hook. f., Fl. Brit. India 4: 461. 1884.
NE India.

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Nagaland ?

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Ruellia spicata Roth, Nov. pl. sp. 310. 1821.
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Phlebophyllum spicatum var. *amomum* (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 169. 1944.
Phlebophyllum spicatum var. *hypoleucum* (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 169. 1944.
SW Ghats (Kerala, Tamilnadu).

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Tetragoga cruciata Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41(1): 300. 1944.
Tetragoga nagaënsis Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 299. 1944.
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NE India.

Strobilanthes cuneata (Shakya) J.R.I. Wood in Edinburgh J. Bot. 51: 218. 1994.
Dossifluga cuneata Shakya in J. Jap. Bot. 50: 99. 1975.
C Himalaya.

Strobilanthes cusia (Nees) Kuntze, Revis. gen. pl. 2: 499. 1891; J.R.I. Wood in Edinburgh J. Bot. 51: 223. 1994.
Goldfussia cusia Nees in Wall., Pl. asiat. rar. 3: 88. 1832.
Strobilanthes flaccidifolia sensu C. B. Clarke in Hook. f., Fl. Brit. India 4: 468. 1884 non Nees, 1847 p.p.
Baphicacanthus cusia (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 190. 1944.
E & NE India (often cultivated).

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Endopogon cuspidatus Benth. in Linnaea 24: 646. 1851.
Endopogon versicolor Wight, Icon. pl. Ind. orient. t. 1497. 1849.
Phlebophyllum versicolor (Wight) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 169. 1944.
Peninsular India.

Strobilanthes cyphantha Diels in Notes Roy. Bot. Gard. Edinburgh 5: 162. 1912; J.R.I. Wood in Edinburgh J. Bot. 51: 221. 1994.
Arunachal Pradesh.

Strobilanthes decipiens J.R.I. Wood apud J.R.I. Wood & Scotland in Kew Bull. 58: 112, f. 8, A-K. 2003.
NE India.

Strobilanthes decurrens Nees in DC., Prodr. (Ed. A.DC.) 11: 189. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 440. 1884.
Goldfussia decurrens (Nees) Wight, Icon. pl. Ind. orient. t. 1522. 1850.
Nilgirianthus decurrens (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 174. 1944.
Peristrophe montana sensu V.S. Ramach. & V.J. Nair, Fl. Cannanore 346.1988 non Nees, 1832.
SW Ghats.

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Asystasia denticulata Nees in Wall., Pl. asiat. rar. 3: 89. 1832.
Strobilanthes flaccidifolia Nees in DC., Prodr. (Ed. A.DC.) 11: 194. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 468. 1884.
Trinemacanthus griffithianus Nees in DC., Prodr. (Ed. A.DC.) 11: 169. 1847; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 201. 1944.
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Meghalaya.

Strobilanthes diandra (Nees) Alston in Trimen, Handb. fl. Ceylon 6: 227. 1931.
Stenosiphonium diandrum Nees in DC., Prodr. (Ed. A.DC.) 11: 105. 1847 non Wight, 1850.
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Tamilnadu ?
Note: Though, Santapau & A. N. Henry have reported this species from Tirunelveli Hills, Tamilnadu (Agastyar Hills?) no mention is made in a subsequent work, Fl. Tamilnadu anal. vol. 2. 1987, edited by A. N. Henry et al. C.B. Clarke, op.cit. recorded this species from Ceylon (Sri Lanka).

Strobilanthes discolor (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 477. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 462. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 237. 1994.
Goldfussia discolor Nees in DC., Prodr. (Ed. A.DC.) 11: 172. 1847.
Strobilanthes discolor var. *nudicalyx* C.B. Clarke in Hook.f., Fl. Brit. India 4: 462. 1884.
Diflugossa nagaensis Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 237. 1944.
Himalayas, NE India

Strobilanthes divaricata (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 478. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 468. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 223. 1994.
Goldfussia divaricata Nees in Wall., Pl. asiat. rar. 3: 89. 1832.
Diflugossa divaricata (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 246. 1944.
NE India, Temperate Himalayas.

Strobilanthes dupeni Bedd. ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 453. 1884; Venu & P. Daniel in Bull. Bot. Surv. India 45: 100. 2003.
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SW Ghats (Kerala, Tamilnadu).

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Perilepta dyeriana (Mast.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 194. 1944
Apparently cultivated (J.R.I. Wood, op.cit.).

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Strobilanthes pectinata T. Anderson in J. Linn. Soc., Bot. 9: 474. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 447. 1884.
Strobilanthes pectinata var. *daltonii* C.B. Clarke in Hook.f., Fl. Brit. India 4: 447. 1884.
Goldfussia echinata (Nees) N.P. Balakr., Fl. Jowai 2: 355. 1983.
Goldfussia echinata var. *daltoni* (C.B.Clarke) V. & P. Singh in J. Econ. Taxon. Bot. 15: 705. (1991) 1992.
E Himalaya, NE India.

Strobilanthes elongata C.B. Clarke in Hook.f., Fl. Brit. India 4: 470. 1884; J. R. I. Wood in Edinburgh J. Bot. 51: 223. 1994.
? *Strobilanthes furcata* Biswas in Assam For. Rec. Bot. 1: 23. 1934.
NE India.

Strobilanthes extensa (Nees) Nees in DC., Prodr. (Ed. A.DC.) 11: 193. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 463. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 221. 1994.
Goldfussia extensa Nees in Wall., Pl. asiat. rar. 3: 88. 1832.
Pteracanthus extensus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
C & E Himalaya, NE India.

Strobilanthes fimbriata Nees in Wall., Pl. asiat. rar. 3: 86. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 447. 1884.
NE India.

Strobilanthes foliosa (Wight) T. Anderson in J. Linn. Soc., Bot. 9: 467. 1867; C. B. Clarke in Hook. f., Fl. Brit. India 4: 433. 1884.
Endopogon capitatus Wight, Icon. pl. Ind. orient. t. 1499. 1849.
Endopogon foliosus Wight, Icon. pl. Ind. orient. t. 1501. 1849.
Strobilanthes foliosa (Wight) T. Anderson var. *capilata* (Wight) T. Anderson in J. Linn. Soc., Bot. 9: 467. 1867; Nayek & Debika Mitra née D. Das in J. Econ. Taxon. Bot. 21: 573. 1997.
Nilgirianthus foliosus (Wight) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 173. 1944.
SW Ghats.

Strobilanthes frondosa J.R.I. Wood in Edinburgh J. Bot. 51: 239, f.9, A-H. 1994; J.R.I. Wood et al. in Kew Bull. 58: 164. 2003.
E Himalaya, Manipur.

Strobilanthes gamblei Carine, J.M. Alexander & Scotland in Kew Bull. 59: 5. 2004.
SW Ghats (Karnataka, Kerala).

Strobilanthes geniculata C.B. Clarke in Hook.f., Fl. Brit. India 4: 459. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 240. 1994.
Strobilanthes gracilis T. Anderson in J.Linn. Soc., Bot. 9: 474. 1867 non Bedd., 1864.
Strobilanthes geniculata var. *integra* C.B. Clarke in Hook.f., Fl. Brit. India 4: 459. 1884.

Strobilanthes persistens C.B. Clarke nom. nud.; C.E.C. Fisch. in Rec. Bot. Surv. India 12: 122. 1938.
Strobilanthes burkillii Dunn in Bull. Misc. Inform. 1920: 208. 1920.
Goldfussia geniculata (C.B.Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 231. 1944.
E Himalaya, NE India.

Strobilanthes glabrata Nees in Wall., Pl. asiat. rar. 3: 85. 1832, C.B. Clarke in Hook.f., Fl. Brit. India 4: 447. 1884.
Goldfussia glabrata (Nees) N.P. Balakr., Fl. Jowai 2: 355. 1983.
NE India.

Strobilanthes glomerata (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 475. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 448. 1884; J.R. Benn. & Scotland in Kew Bull. 58: 43. 2003.
Goldfussia glomerata Nees in Wall., Pl. asiat. rar. 3: 88. 1832.
NE India.

Strobilanthes glutinosa Nees in Wall., Pl. asiat. rar. 3: 86. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 458. 1884.
Pseudoeclinanthera glutinosa (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 188. 1944.
Himalayas, NE India, Upper Gangetic Plains.

Strobilanthes gracilis Bedd. in Madras J. Lit. Sci. ser. 3, 1: 55. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 4: 474. 1884.
Mackenziea gracilis (Bedd.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 182. 1944.
SW Ghats (Kerala,Tamilnadu).

Strobilanthes hallbergii Blatt. in J. & Proc. Asiat. Soc. Bengal 26: 345. (1930) 1931.
Rajasthan.

Strobilanthes hamiltoniana (Steud.) Bosser & Heine in Bull. Mus. Natl. Hist. Nat., (Paris) 4e ser. 10, sect. B, Adansonia No. 2: 148. 1988; J.R. Benn. & Scotland in Kew Bull. 58: 22. 2003.
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Goldfussia colorata Nees in Wall., Pl. asiat. rar. 3: 89. 1832.
Goldfussia crinita Nees in DC., Prodr. (Ed. A. DC.) 11: 176. 1847.
Strobilanthes colorata sensu T. Anderson in J. Linn. Soc., Bot. 9: 481. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 473. 1884 non *Strobilanthes colorata* Nees in Companion Bot. Mag. 2: 312. 1836.
Strobilanthes crinita (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 481. 1867.
Strobilanthes laevigata C.B. Clarke in Hook.f., Fl. Brit. India 4: 467. 1884.
Strobilanthes colorata var. *crinita* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 473. 1884.
Diflugossa colorata (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 237. 1944.
Diflugossa crinita (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 246. 1944.
E Himalaya, NE India; cultivated in Tamilnadu.

Strobilanthes helicta T. Anderson in J. Linn. Soc., Bot. 9: 479. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 469. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 221. 1994.
Asystasia calycina Nees in Wall., Pl. asiat. rar. 3: 90. 1832.
Pteracanthus calycinus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
E Himalaya, NE India.

Strobilanthes heteromalla T. Anderson ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 437. 1884.
Xenacanthus heteromallus (T. Anderson ex C.B.Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 176. 1944.
SW Ghats (Karnataka, Tamilnadu).

Strobilanthes heyneana Nees in Wall., Pl. asiat. rar. 3: 85. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 443. 1884; Venu, Strobilanthes, Penins. India (Eds. P. Daniel & Sanjappa) 109. 2006.
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Peninsular India.

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E. Himalaya.

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SW Ghats (Karnataka, Kerala).

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SW Ghats (Tamilnadu).

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NE India.

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E Himalaya.

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Peninsular India.

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Peninsular India.

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E Himalaya, NE India.

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Bihar.

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Arunachal Pradesh.

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SW Ghats.

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E Himalaya.

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Himalayas.

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SW Ghats.

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E to Peninsular India.

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var. **lurida**.
SW Ghats (Kerala, Tamilnadu).

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SW Ghats (Nilgiris).

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NE India.

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NE India.

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Assam.

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Karnataka.

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Peninsular India.
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Strobilanthes micrantha Wight, Icon. pl. Ind. orient. t. 1519. 1849; C.B. Clarke in Hook.f., Fl. Brit. India 4: 444. 1884.
Pteniandra micrantha (Wight) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 175. 1944.
SW Ghats (Kerala,Tamilnadu).

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Andaman Islands.

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Ruellia punctata Nees in DC., Prodr. (Ed. A.DC.) 11: 147. 1847; Wight, Icon. pl. Ind. orient. t. 1563. 1850.
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SW Ghats.

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SW Ghats (Karnataka).

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E Himalaya, NE India.

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E Himalaya, NE India.

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SW Ghats.

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Peninsular India.
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Karnataka.

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NE India.

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Himalayas.

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E Himalaya.

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Arunachal Pradesh.

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Arunachal Pradesh.

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NE. India.

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Nagaland.

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SW Ghats (Karnataka, Tamilnadu).

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NE. India.

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Arunachal Pradesh.

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Andaman Islands.

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Himalayas, NE India, Upper Gangetic Plains.

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C. & W. Temperate Himalaya.

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SW Ghats.

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E Himalaya, E & NE India.

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E & NE India, Tamilnadu.

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Pyrrothrix polythrix (T. Anderson) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 210. 1944.
Meghalaya.

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SW Ghats (Kerala).

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Nagaland.

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E Himalaya, NE India.

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E & S India.

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NE India.

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NW Ghats (Karnataka, Maharashtra).

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NE India.

Strobilanthes rubescens T. Anderson in J. Linn. Soc., Bot. 9: 479. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 469. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 220. 1994.
Strobilanthes boerhaavioides T. Anderson in J. Linn. Soc., Bot. 9: 479. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 469. 1884.
Pteracanthus rubescens (T. Anderson) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
Pteracanthus boerhaavioides (T. Anderson) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
var. **rubescens**.
NE India.

var. **microsperma** C.B. Clarke in Hook.f., Fl. Brit. India 4: 469. 1884.
E Himalaya, Meghalaya.

Strobilanthes rubicunda (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 483. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 475. 1884.
Leptacanthus rubicundus Nees in Wall., Pl. asiat. rar. 3: 90. 1832; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 184. 1944.
Strobilanthes paniculata sensu Bedd., Icon. pl. Ind. or. 46, t. 199. 1874, non T. Anderson, 1867.
SW Ghats (Kerala,Tamilnadu).

Strobilanthes rufescens (Roth) T. Anderson in J. Linn. Soc., Bot. 9: 472. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 430. 1884; Chatterji & Raizada in Indian Forester 74: 391. 1948; J.R.I. Wood & Scotland in Kew Bull. 58: 85. 2003.
Ruellia rufescens Roth, Nov. pl. sp. 304. 1821.
Strobilanthes rufescens var. *rubiginosa* C.B. Clarke in Hook.f., Fl. Brit. India 4: 430. 1884; C.E.C.Fisch. in Rec. Bot. Surv. India 12: 122. 1938.
Buteraea rufescens (Roth) D. Dietr., Syn. pl. 3: 589. 1843; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41(1): 211. 1944.
E Himalaya, NE India.

Strobilanthes sabiniana (Wall. ex Lindl.) Nees in Wall., Pl. asiat. rar. 3: 86. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 454. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 220. 1994.
Ruellia sabiniana Wall. ex Lindl. in Edwards' Bot. Reg. (Ed. Lindl.) 15: t. 1238. 1829.
E Himalaya, NE India.

Strobilanthes saccata J.R.I. Wood in Edinburgh J. Bot. 51: 256. 1994.
C Himalaya.

Strobilanthes sanjappae Karthik. & Moorthy nom. nov.
Hemigraphis glandulosa T. Anderson in Kurz, Rep. veg. Andaman Isl., App. B. 13. 1870.
Strobilanthes glandulosa (T. Anderson) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42 (2): 92. 1873 non Blume, 1826; C.B. Clarke in Hook.f., Fl. Brit. India 4: 467. 1884.
Andaman Islands.

Strobilanthes scaber Nees in Wall., Pl. asiat. rar. 3: 84. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 446. 1884.
Sericocalyx scaber (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 165. 1944.
N to NE India.

Strobilanthes scoriarum W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 10: 199. 1918; J.R.I. Wood & Scotland in Kew Bull. 58: 700. 2003.

Strobilanthes aborensis Dunn in Bull. Misc. Inform. 1920: 208. 1920.
Goldfussia scoriarum (W.W. Sm.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41(1): 234. 1944.
NE India.
Note : Kanjilal et al., Fl. Assam 3: 429. 1939 lists *Strobilanthes arborasis* Dunn which appears to be an error and may be *Strobilanthes aborensis* only.

Strobilanthes scrobiculata Dalzell ex C.B. Clarke in Hook.f., Fl. Brit. India 4: 445. 1884; Carine & Scotland in Rev. Palaeobot. & Palyn. 103: 163. 1998.
Supushpa scrobiculata (Dalzell ex C.B. Clarke) Suryan. in Proc. Kon. Ned. Akad. Wetensch., ser. C, 73: 428. 1970.
W Ghats (Goa, Karnataka, Maharashtra).

Strobilanthes secunda T. Anderson in J. Linn. Soc., Bot. 9: 480. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 468. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 223. 1994.
Ditrichospermum secundum (T. Anderson) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 189. 1944.
NE India.

Strobilanthes sessilis Nees in Wall., Pl. asiat. rar. 3: 85. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 452. 1884; Carine & Scotland in Rev. Palaeobot. & Palyn. 103: 164. 1998.
Strobilanthes sessiloides Dalzell & A.Gibson, Bombay Fl. 187. 1861 p.p. non Wight, 1850.
Pleocaulus sessilis (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 185. 1944.
var. **sessilis.**
W Ghats.
var. **ritchiei** C. B. Clarke in Hook.f., Fl. Brit. India 4: 452.1884
Strobilanthes sessiloides Dalzell & A.Gibson, Bombay Fl. 187.1861, p.p.
Pleocaulus ritchiei (C. B. Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41(1): 185. 1944.
W Ghats (Karnataka, Maharashtra).

var. **sessiloides** Wight, Icon. pl. Ind. orient. t. 1512. 1850; C.B. Clarke in Hook.f.,Fl. Brit. India 4: 452.1884.
Pleocaulus sessiloides (Wight) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 185. 1944.
Pleocaulus sessilis var. *sessiloides* (Wight) Vajr., Fl. Palghat dist. 358. 1990.
SW Ghats.

Strobilanthes sexennis Nees in Companion Bot. Mag. 2: 312. 1836; C.B. Clarke in Hook.f., Fl. Brit. India 4: 474. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 110. 1994 & in Kew Bull. 50: 16. 1995.
Mackenziea sexennis (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41(1): 182. 1944.
SW Ghats(Nilgiris).

Strobilanthes simonsii T. Anderson in J. Linn. Soc., Bot. 9: 472. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 447. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 224. 1994.
E Himalaya, NE India.

Strobilanthes simplex J.R.I. Wood in Edinburgh J. Bot. 51: 259, f. 12. 1994.
NE India.

Strobilanthes spicata T. Anderson in J. Linn. Soc., Bot. 9: 484. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 477. 1884; J.R. I. Wood in Edinburgh J. Bot. 51: 208. 1994.

Strobilanthes phyllocaulos C.B. Clarke in Hook.f., Fl. Brit. India 4: 464. 1884.
Pteracanthus phyllocaulos (C.B. Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
Meghalaya.

Strobilanthes stenophylla C.B. Clarke in Hook.f., Fl. Brit. India 4: 472. 1884.
Meghalaya.

Strobilanthes subnudata C.B. Clarke in Hook.f., Fl. Brit. India 4: 472. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 261. 1994.
Pteracanthus subnudatus (C.B.Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 199. 1944.
E Himalaya.
Note: Bremek. (op.cit.) has proposed the following combination also, for the same species:
Diflugossa subnudata (C.B. Clarke) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 246. 1944.

Strobilanthes tamburensis C.B. Clarke in Hook.f., Fl. Brit. India 4: 454. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 220. 1994.
C & E Himalaya.

Strobilanthes tenax Dunn in Bull. Misc. Inform. 1920: 208. 1920; J.R.I. Wood & Scotland in Kew Bull. 58: 701. 2003.
Arunachal Pradesh.

Strobilanthes thomsonii T. Anderson in J. Linn. Soc., Bot. 9: 478. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 467. 1884.
Subtropical E Himalaya.

Strobilanthes tibetica J.R.I. Wood in Edinburgh J. Bot. 51: 262, f. 13, A-C. 1994.
NE India.

Strobilanthes tomentosa (Nees) J.R.I. Wood in Kew Bull. 64: 16. 2009.
Aechmanthera tomentosa Nees in Wall., Pl. asiat. rar 3: 87. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 428. 1884.
Aechmanthera wallichii Nees in DC., Prodr. (Ed. A. DC.) 11: 170. 1847.
Ruellia gossypina Nees in Wall., Pl. asiat. rar. 1: 38, t. 42. 1830 non *Strobilanthes goesypina* T. Anderson, 1867.
Aechmanthera gossypina (Nees) Nees in Wall., Pl. asiat rar. 3: 87. 1832
Aechmanthera tomentosa var. *wallichii* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 428. 1884.
Aechmanthera leiosperma C.B. Clarke in Hook.f., Fl. Brit. India 4: 429. 1884.
Aechmanthera tomentosa var. *gossypina* (Nees) Das in Kanjilal, P.C. Kanjilal, Das & R.N. De, Fl. Assam 3: 413. 1939.
Aechmanthera claudiae Bernardi in Candollea 18: 243. 1963.
E & NE India, Himalayas, Jammu, Punjab plains, Upper Gangetic Plains.

Strobilanthes tristis (Wight) T. Anderson in J. Linn. Soc., Bot. 9: 470. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 441. 1884.
Goldfussia tristis Wight, Icon. pl. Ind. orient. t. 1508. 1850; Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 232. 1944.
SW Ghats (Karnataka, Tamilnadu).

Strobilanthes tubiflos (C.B. Clarke) J.R.I. Wood in Edinburgh J. Bot. 51: 264. 1994; J.R.I. Wood et al. in Kew Bull. 58: 168. 2003.
Strobilanthes petiolaris var. *tubiflos* C.B. Clarke in Hook.f., Fl. Brit. India 4: 456. 1884.
E Himalaya (Arunachal Pradesh).

Strobilanthes urceolaris Gamble in Bull. Misc. Inform. 1923: 374. 1923 (Fl. Madras 2: 727. 1967, Repr.).
Nilgirianthus urceolaris (Gamble) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 173. 1944.
SW Ghats (Kerala,Tamilnadu).

Strobilanthes urophylla (Nees) Nees in DC., Prodr. (Ed. A.DC.) 11: 192. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 472. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 221. 1994.
Dipteracanthus urophyllus Nees in Wall., Pl. asiat. rar. 3: 82. 1832.
Strobilanthes urophylla var. *sikkimensis* C.B. Clarke in Hook.f., Fl. Brit. India 4: 472. 1884.
Pteracanthus urophyllus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 198. 1944.
E Himalaya, NE India.

Strobilanthes violacea Bedd., Icon. pl. Ind. or. t. 205. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 474. 1884.
Mackenziea violacea (Bedd.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk., Tweede Sect. 41 (1): 182. 1944.
SW Ghats (Nilgiris).

Strobilanthes virendrakumarana Venu & P. Daniel in Venu, Strobilanthes, Penins. India (Eds. P. Daniel & Sanjappa) 189. 2006.
SW Ghats (Kerala).

Strobilanthes walkeri Arn. ex Nees in Companion Bot. Mag. 2: 312. 1836; Bedd., Icon. pl. Ind. or. t. 222. 1874; C.B. Clarke in Hook.f., Fl. Brit. India 4: 440. 1884; Vajr. & S.R. Sriniv. in Bull. Bot. Surv. India 15: 280. 1976; J.R.I. Wood in Edinburgh J. Bot. 51: 109. 1994 & in Kew Bull. 50: 10. 1995.
Strobilanthes walkeri var. *stenocarpa* C.B. Clarke in Hook.f., Fl. Brit. India 4: 441. 1884.
SW Ghats (Kerala,Tamilnadu).

Strobilanthes wallichii Nees in Wall., Pl. asiat. rar. 3: 87. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 471. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 265. 1994.
Ruellia alata Wall., Pl. asiat. rar. 1: 26. 1830 non *Strobilanthes alata* Blume, 1826.
Strobilanthes atropurpurea Nees in Wall., Pl. asiat. rar. 3: 86. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 472. 1884.
Strobilanthes wallichii var. *microphylla* Nees in DC., Prodr. (Ed. A.DC.) 11: 193. 1847; C.B. Clarke in Hook.f., Fl. Brit. India 4: 472. 1884.
Pteracanthus alatus (Wall.) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 199. 1944.
Himalayas, NE India, Upper Gangetic Plains.

Strobilanthes warreensis Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 341. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 4: 439. 1884.
Strobilanthes parviflorus Bedd., Icon. pl. Ind. or. t. 197. 1874.
Nilgirianthus warreensis (Dalzell) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 173. 1944.
W Ghats (Goa, Karnataka, Kerala, Maharashtra).

Strobilanthes wightiana Nees in Wall., Pl. asiat. rar. 3: 86. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 438. 1884.
Nilgirianthus wightianus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 175. 1944.
Orissa, SW Ghats (Kerala,Tamilnadu).

Strobilanthes zenkeriana (Nees) T. Anderson in J. Linn. Soc., Bot. 9: 467. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 439. 1884.
Goldfussia zenkeriana Nees in DC., Prodr. (Ed. A.DC.) 11: 172. 1847.
Xenacanthus zenkerianus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 176. 1944.
Goldfussia leschenaultiana Nees in DC., Prodr. (Ed. A.DC.) 11: 172. 1847.
Strobilanthes foliosa sensu C.B. Clarke in Hook.f., Fl. Brit. India 4: 433. 1884 p.p. non (Wight) T. Anderson, 1867.
Xenacanthus leschenaultianus (Nees) Bremek. in Verh. Kon. Ned. Akad. Wetensch., Afd. Natuurk.,Tweede Sect. 41 (1): 176. 1944.
SW Ghats (Kerala, Tamilnadu).

THUNBERGIA Retz. in Physiogr. Sälsk. Handl. 1 (3): 163. (1776) 1780, nom. cons.

Thunbergia alata Bojer ex Sims in Curtis, Bot. Mag. (Ed. Sims) 52: t. 2591. 1825; C.B. Clarke in Hook.f., Fl. Brit. India 4: 391. 1884.
Cultivated widely; naturalised.

Thunbergia bicolor (Wight) Manilal & Suresh in J. Econ. Taxon. Bot. 5: 422. 1984.
Schmidia bicolor Wight, Icon. pl. Ind. orient. t. 1848. 1852.
Thunbergia wightiana T. Anderson in J. Linn. Soc., Bot. 9: 448. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 393. 1884.
SW Ghats (Kerala, Tamilnadu).

Thunbergia coccinea Wall., Tent. fl. napal. 49, 58, t. 37. 1824; C.B. Clarke in Hook.f., Fl. Brit. India 4: 393. 1884.
Throughout India.

Thunbergia erecta (Benth.) T. Anderson in J. Linn. Soc., Bot. 7: 18. 1864; Haines, Bot. Bihar Orissa 2: 699. 1961 (Repr).
Meyenia erecta Benth. in Hook., Niger Fl. 476. 1849.
Cultivated throughout India.

Thunbergia fragrans Roxb., Pl. Coromandel 1: 47, t. 67. 1796 & Fl. ind. (Ed. Carey) 3: 33. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 390. 1884.
var. **fragrans.**
Throughout India including Andaman & Nicobar Islands.

var. **hispida** Gamble, Fl. Madras 1008. 1924 (2: 708. 1967, Repr.).
Andhra Pradesh.

var. **vestita** Nees in Wall., Pl. asiat. rar. 3: 78. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 391. 1884.
S India.

Thunbergia grandiflora Roxb. (Hort. bengal. 45. 1814) ex Roxb. in Bot. Reg. (Ed. Ker Gawl.) 6: 495. 1820; C.B. Clarke in Hook.f., Fl. Brit. India 4: 392. 1884; J.R.I. Wood in Edinburgh J. Bot. 51: 176. 1994.
Thunbergia clarkei T. Yamaz. in J. Jap. Bot. 46: 52. 1971.
var. **grandiflora**.
Almost throughout India.

var. **axillaris** C.B. Clarke in Hook.f., Fl. Brit. India 4: 392. 1884.
NE India.

Thunbergia laevis Nees in Wall., Pl. asiat. rar. 3: 77. 1832; Panthaki & Santapau in J. Bombay Nat. Hist. Soc. 53: 500. 1956.
Thunbergia fragrans var. *laevis* (Nees) C.B. Clarke in Hook.f., Fl. Brit. India 4: 391. 1884.
E N & Peninsular India.

Thunbergia laurifolia Lindl. in Gard. Chron. 1856: 260. 1856; C.B. Clarke in Hook.f., Fl. Brit. India 4: 392. 1884.
Andaman & Nicobar Islands, E India; cultivated in Maharashtra (Melghat).

Thunbergia lutea T. Anderson in J. Linn. Soc., Bot. 9: 448. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 4: 392. 1884.
E Himalaya.

Thunbergia maculata Lace in Bull. Misc. Inform. 1914: 154. 1914; Deb in Bull. Bot. Surv. India 3: 341. 1961.
Manipur.

Thunbergia mysorensis (Wight) T. Anderson in J. Linn. Soc., Bot. 9: 448. 1867; C.B.Clarke in Hook.f., Fl. Brit. India 4: 393. 1884; D. Panja in J. Econ. Taxon. Bot. 30: 399. 2006.
Hexacentris mysorensis Wight, Icon. pl. Ind. orient. t. 871. 1844-45.
Peninsular India.

Thunbergia natalensis Hook. in Curtis, Bot. Mag. (Ed. Hook.) 84: t. 5082. 1858; Bor & Raizada in J. Bombay Nat. Hist. Soc. 42: 692. 1941.
Cultivated.

Thunbergia tomentosa Wall. ex Nees in Wall., Pl. asiat. rar. 3: 78. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 4: 391. 1884.
C E & S India.

THYRSACANTHUS Nees in Mart., Fl. bras. 9: 97. 1847.

Thyrsacanthus nitidus Nees in DC., Prodr. (Ed. A.DC.) 11: 327. 1847; Bole & J.M. Pathak, Fl. Saurashtra 2: 196. 1988.
Gujarat.

ACERACEAE

ACER L., Sp. pl. 1054. 1753.

Acer acuminatum Wall. ex D. Don, Prodr. fl. nepal. 249. 1825; Banerji & Sitesh Das in Indian Forester 97: 248. 1971.
Acer caudatum Wall., Numer. List 33. no. 1226. 1829 nom. nud. pro. max. p.; Hiern in Hook. f., Fl. Brit. India 1: 695. 1875 p.p.
C to NW Himalaya.

Acer caesium Wall. ex Brandis, Forest fl. N.W. India 111, t. 21. 1874 non *Acer caesium* (Reinw. ex Blume) Kosterm., 1965; Hiern in Hook.f., Fl. Brit. India 1: 695. 1875.
Temperate C to NW Himalaya; Tamilnadu (cultivated).

Acer campbellii Hook.f. & Thomson ex Hiern in Hook.f., Fl. Brit. India 1: 696. 1875; Banerji in J. Bombay Nat. Hist. Soc. 58: 306. 1961.
var. **campbellii**.
C to E Himalaya.

var. **serratifolia** Banerji in J. Bombay Nat. Hist. Soc. 58: 306. 1961; M.P. Nayar & A. Datta in Fasc. fl. India 9: 6. 1982.
C to E Himalaya.

Acer cappadocicum Gled. in Schriften Ges. Naturf. Freunde Berlin 6: 116, t. 2. 1785; H. Hara in H. Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 98. 1979.
Acer cultratum Wall., Pl. asiat. rar. 2: 4. 1830.
Acer mono Maxim. in Bull. Cl. Phys.- Math. Acad. Imp. Sci. Saint-Petersbourg 15: 126. 1857; Rehder in J. Arnold Arbor. 19: 80. 1938; Raizada & H.O. Saxena, Fl. Mussoorie 1: 123. 1978.
Acer pictum auct non Thunb., 1784; Hiern in Hook.f., Fl. Brit. India 1: 696. 1875.
Acer luteum C.A. Mey. var. *cultratum* (Wall.) Pax in Engl., Pflanzenr. IV. 163(Heft 8): 48. 1902.
Acer cappadocicum var. *indicum* (Pax) Rehder in Sarg., Pl. wilson. 1: 86. 1911; Banerji & Sitesh Das in Indian Forester 97: 230. 1971.
Throughout Himalayas.

Acer caudatum Wall., Pl. asiat. rar. 2: 4. 1830 & 28, t. 132. 1831; Hiern in Hook.f., Fl. Brit. India 1: 695. 1875.
Acer papilio King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 115. 1896.
Temperate Himalayas.

Acer forrestii Diels in Notes Roy. Bot. Gard. Edinburgh 5: 165. 1912; C.E.C. Fisch. in Bull. Misc. Inform. 1932: 198. 1932.
E. Himalaya, NE India.

Acer hookeri Miq. in Arch. Neerl. Sci. Exact. Nat. 2: 471. 1852; Hiern in Hook.f., Fl. Brit. India 1: 694. 1875, var. **hookeri**.
C to E Temperate Himalaya.

var. **majus** Pax in Bot. Jahrb. Syst. 7: 216. 1886; M.P. Nayar & A. Datta in Fasc. fl. India 9: 10. 1982.
E Himalaya.

Acer laevigatum Wall., Pl. asiat. rar. 2: 3, t. 104. 1830; Hiern in Hook.f., Fl. Brit. India 1: 693. 1875.
NE India, Temperate Himalayas.

Acer laurinum Hassk. apud Hoeven & de Vriese in Tijdschr. Natuurl. Gesch. Physiol. 10: 138. 1843; Delendick in Reinwardtia 9: 396. 1980.
Acer niveum Blume in Jaarb. Kon. Ned. Maatsch. Aanm. Tuinb. 1844: 84. 1845; Hiern in Hook.f., Fl. Brit. India 1: 693. 1875.
E Himalaya, NE India.

Acer lobelii Ten., Cat. hort. neapol. 1813; App. ed. alt. 69. 1819; Brandis, Indian trees 184. 1906.
Himalayas.

Acer molle Pax in Bot. Jahrb. Syst. 11: 74. 1889 & in Engl., Pflanzenr. IV. 163 (Heft 8) : 15. 1902; R. Parker, Forest fl. Punjab 553. 1984 (3rd repr. ed.).
W Himalaya.

Acer oblongum Wall. ex DC., Prodr. 1: 593. 1824; Hiern in Hook.f., Fl. Brit. India 1: 693. 1875.
var. **oblongum**.
NE India, Temperate Himalayas.

var. **membranaceum** Banerji in Phytologia 9: 265. 1963.
Uttar Pradesh.

var. **microcarpum** Hiern in Hook.f., Fl. Brit. India 1: 693. 1875.
E Himalaya, NE India.

Acer x osmastonii Gamble in Bull. Misc. Inform. 1908: 446. 1908 emend. Delendick in Brittonia 30: 475. 1978.
Himalayas.

Acer pectinatum Wall. ex Pax in Bot. Jahrb. Syst. 7: 249. 1886.
Acer caudatum sensu Hiern in Hook.f., Fl. Brit. India 1: 695. 1875, p.p. non Wall., 1830.
Himalayas.

Acer pentapomicum J. Stewart ex Brandis, Forest fl. N.W. India 111. 1874; Hiern in Hook.f., Fl. Brit. India 1: 694. 1875.
Temperate NW Himalaya.

Acer pinnatinervium Merr. in Brittonia 4: 109. 1941; K.C. Sahni & H.B. Naithani in Indian Forester 114: 48, f. 1. 1988.
Arunachal Pradesh.

Acer pseudoplatanus L., Sp. pl. 1054. 1753; K.M. Matthew in Rec. Bot. Surv. India 20 (1): 66. 1969.
Cultivated in Tamilnadu (Pulneys).

Acer saccharum Marshall, Arbust. amer. 4. 1785; R. Parker, Forest fl. Punjab 102. 1984 (3rd Repr. ed.); H.J.Chowdhery & Wadhwa, Fl. Himachal Pradesh 1: 161. 1984.
Himachal Pradesh (cultivated ?).

Acer schwerinii Pax in Engl., Pflanzenr. IV. 163 (Heft 8): 33. 1902; Brandis, Indian trees (Addenda) 705. 1906.
Himalayas.

Acer sikkimense Miq. in Arch. Neerl. Sci. Exact. Nat. 2: 471. 1867; Hiern in Hook.f., Fl. Brit. India 1: 694. 1875.
var. **sikkimense.**
Temperate E Himalaya.

var. **serrulatum** Pax in Bot. Jahrb. Syst. 7: 215. 1886; M.P. Nayar & A. Datta in Fasc. fl. India 9:16. 1982.
E Himalaya.

Acer stachyophyllum Hiern in Hook.f., Fl. Brit. India 1: 694. 1875.
Temperate E Himalaya.

Acer sterculiaceum Wall., Pl. asiat. rar. 2: 3, t. 105. 1830; H. Hara, Fl. E. Himal. 192. 1966.
Acer villosum Wall., Pl. asiat. rar. 2: 4. 1830 non J. & C. Presl., 1822; Hiern in Hook.f., Fl. Brit. India 1: 695. 1875.
NE India, Temperate Himalayas.

Acer thomsonii Miq. in Arch. Neerl. Sci. Exact. Nat. 2: 470. 1867; Brandis, Indian trees 183. 1906.
Acer villosum var. *thomsonii* (Miq.) Hiern in Hook.f., Fl. Brit. India 1: 695. 1875.
Acer sterculiaceum ssp. *thomsonii* (Miq.) E. Murray in Kalmia 1: 37. 1969.
ssp. **thomsonii.**
Himalayas, NE India.

ssp. **catalpifolium** E. Murray in Kalmia 8: 11. 1977.
India.

Acer wardii W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 10: 8. 1917; C. E. C. Fisch. in Bull. Misc. Inform. 1932: 198. 1932.
E. Himalaya, NE India.

ACTINIDIACEAE

ACTINIDIA Lindl., Intr. nat. syst. bot. ed. 2. 439. 1836.

Actinidia callosa Lindl., Intr. nat. syst. bot. ed. 2. 439. 1836; Dyer in Hook.f., Fl. Brit. India 1: 286. 1874.
var. **callosa**.
E N & NE India, Himalayas.

var. **pubescens** Dunn in J. Linn. Soc., Bot. 39: 406. 1911; Steenis, Fl. males. ser. I, 4: 39. 1948.
E Himalaya, NE India.

Actinidia chinensis Planch. in Hooker's J. Bot. Kew Gard. Misc. 6: 303. 1847; T.K. Paul in B. D. Sharma & Sanjappa (Eds.), Fl. India 3: 196. 1993.
Cultivated.

Actinidia strigosa Hook.f. & Thomson ex Benth. in J. Proc. Linn. Soc., Bot. 5: 55. 1861; Dyer in Hook.f., Fl. Brit. India 1: 286. 1874.
E Himalaya.

SAURAUIA Willd. in Ges. Naturf. Freunde Berlin Neue Schriften 3: 407. 1801 ('SAURAUJA').

Saurauia armata Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 59. 1873.
Saurauia cerea Griff. ex Dyer in Hook.f., Fl. Brit. India 1: 288. 1874.
C & E Himalaya, NE India.

Saurauia bracteosa DC. in Mem. Soc. Phys. Geneve 1: 422. 1822; Yogan., Chellad., Togun., Govindaiah & Kesh.Murthy in Curr. Sci. 51: 198, f. 10. 1982.
Andaman & Nicobar Islands.

Saurauia fasciculata Wall., Pl. asiat. rar. 2: 40, t. 148. 1831; Dyer in Hook.f., Fl. Brit. India 1: 287. 1874.
C & E Himalaya, NE India.

Saurauia griffithii Dyer in Hook.f., Fl. Brit. India 1:286. 1874.
E Himalaya, NE India.

Saurauia macrotricha Kurz ex Dyer in Hook.f., Fl. Brit. India 1: 287. 1874; Brandis, Indian trees 63. 1906.
E Himalaya, NE India.

Saurauia napaulensis DC. in Mem. Soc. Phys. Geneve 1: 421. 1822; Dyer in Hook.f., Fl. Brit. India 1: 286. 1874.
NE India, Temperate Himalayas.

Saurauia punduana Wall., Pl. asiat. rar. 2: 40. 1831; Dyer in Hook.f., Fl. Brit. India 1: 287. 1874.
E Himalaya, NE India.

Saurauia roxburghii Wall., Pl. asiat. rar. 2: 40. 1831; Dyer in Hook.f., Fl. Brit. India 1: 287. 1874.
C & E Himalaya, NE India.

Saurauia subspinosa J. Anthony in Notes Roy. Bot. Gard. Edinburgh 15: 244. 1927; Spare & C.E.C. Fisch. in Bull. Misc. Inform. 1929: 252. 1929.
E Himalaya, NE India.

ADOXACEAE

ADOXA L., Sp. pl. 367. 1753.

Adoxa moschatellina L., Sp. pl. 367. 1753; M. A. Rau, High alt. fl. pl. W. Himal. 116. 1975; Y.J. Nasir in Nasir & Ali (Eds.), Fl. Pakistan 151: 1. 1983.
Adoxa moschatellina var. *inodora* Falc. ex C. B. Clarke in Hook. f., Fl. Brit. India 3: 2. 1880.
Kashmir Himalaya.

AIZOACEAE

SESUVIUM L., Syst. nat. ed. 10. 2: 1052. 1759.

Sesuvium portulacastrum (L.) L., Syst. nat. ed. 10. 2: 1058. 1759; C.B. Clarke in Hook.f., Fl. Brit. India 2: 659. 1879.
Portulaca portulacastrum L., Sp. pl. 446. 1753.
Coastal Areas.

Sesuvium sesuvioides (Fenzl) Verdc. in Kew Bull. 12: 349. 1957.
Diplochonium sesuvioides Fenzl in Endl. & Fenzl, Nov. stirp. dec. 7: 58. 1839 & in Ann. Wiener Mus. Naturgesch. 2: 292. 1839.
Trianthema hydaspica Edgew. in J. Proc. Linn. Soc., Bot. 6: 203. 1862; C.B. Clarke in Hook. f., Fl. Brit. India 2: 661. 1879.
Gujarat, Upper Gangetic Plains.

TRIANTHEMA L., Sp. pl. 223. 1753.

Trianthema portulacastrum L., Sp. pl. 223. 1753; Gamble, Fl. Madras 1: 389. 1967 (Repr.).
Trianthema monogyna L., Mant. pl. 1: 69. 1767; C.B. Clarke in Hook.f., Fl. Brit. India 2: 660. 1879.
Trianthema obcordata Roxb., Fl. ind. (Ed. Carey) 2: 445. 1832; Wight, Icon. pl. Ind. orient. t. 228. 1840.
Throughout India.

Trianthema triquetra Willd. ex Spreng., Syst. veg.ed. 16. 2: 381. 1825; T. Cooke, Fl. Bombay 1: 390. 1967 (Repr.); P. Daniel & Umam. in Indian J. Forest. 22: 409. 1999.
Trianthema crystallina sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 660. 1879 non
Papularia crystallina Forssk., 1775.
var. **triquetra**.
E N & S India.

var. **oblongifolia** Gamble, Fl. Madras 551. 1919 (1: 389. 1967, Repr.).
Tamilnadu.

ZALEYA Burm. f., Fl. indica 110. 1768.

Zaleya decandra (L.) Burm.f., Fl. indica 110, t. 31, f. 3. 1768; G.L. Shah, Fl. Gujarat 339. 1978.
Trianthema decandra L., Mant. pl. 1: 70. 1767; C.B. Clarke in Hook.f., Fl. Brit. India 2: 661. 1879.
Peninsular India.

Zaleya govindia (Buch.-Ham. ex G. Don) N. C. Nair in Bull. Bot. Surv. India 8: 86. 1966.
Trianthema govindia Buch.-Ham. ex G. Don, Gen. hist. 3: 72. 1834; Melville in Kew Bull. 1952: 264. 1952.
Trianthema pentandra sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 660. 1879 non L., 1767.
E & N India.

Zaleya pentandra (L.) C. Jeffrey in Kew Bull. 14: 238. 1960.
Trianthema pentandra L., Mant. pl. 1: 70. 1767; C.B. Clarke in Hook.f., Fl. Brit. India 2: 660. 1879.

Trianthema pentandra var. *rubra* Blatt. & Hallb. in J. Bombay Nat. Hist. Soc. 26: 530. 1919.
Trianthema redimita Melville in Kew Bull. 1952: 268. 1952.
Trianthema decandra var. *rubra* (Blatt. & Hallb.) Santapau in J. Bombay Nat. Hist. Soc. 56: 279. 1959.
Zaleya govindia var. *rubra* (Blatt. & Hallb.) N.C. Nair in Bull. Bot. Surv. India 8: 86. 1966.
Zaleya redimita (Melville) Bhandari, Fl. ind. des. 185. 1978.
var. **pentandra.**
N India, Upper Gangetic Plains.

var. **flava** (Blatt. & Hallb.) M. Sharma, Punjab pl. ch. list 7. 1990.
Trianthema pentandra var. *flava* Blatt. & Hallb. in J. Bombay Nat. Hist. Soc. 26: 531. 1919.
Trianthema decandra var. *flava* (Blatt. & Hallb.) Santapau in J. Bombay Nat. Hist. Soc. 56: 280. 1959.
Zaleya govindia var. *flava* (Blatt. & Hallb.) N.C. Nair in Bull. Bot. Surv. India 8: 86. 1966.
Maharashtra, Punjab plains.

ALANGIACEAE

ALANGIUM Lam., Encycl. 1: 174. 1783, nom. cons.
MARLEA Roxb., Pl. Coromandel 3: 80. (1819) 1820.

Alangium alpinum (C.B.Clarke) W.W. Sm. & Cave in Rec. Bot. Surv. India 6: 96, t. 2. 1914; K.M. Matthew in Fasc. fl. India 19: 2. 1988.
Marlea begoniaefolia Roxb. var. *alpina* C.B. Clarke in Hook.f., Fl. Brit. India 2: 744. 1879.
Marlea alpina (C.B.Clarke) Gamble ex Brandis, Indian trees 353. 1906.
E Himalaya, E & NE India.

Alangium barbatum (R. Br.) Baill. ex Kuntze, Revis. gen. pl. 1: 273. 1891; K.M. Matthew in Fasc. fl. India 19:3. 1988.
Marlea barbata R. Br., Names & notes Ind. pl. 1828-1849 & Misc. bot. works 2: 534. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 2: 743. 1879.
NE India.

Alangium chinense (Lour.) Harms in Ber. Deutsch. Bot. Ges. 15: 24. 1897; K.M. Matthew in Fasc. fl. India 19: 3. 1988.
Stylidium chinense Lour., Fl. cochinch. 1: 221. 1790.
Marlea begoniifolia Roxb., Pl. Coromandel 3: 80, t. 283. 1820 & Fl. ind. (Ed. Carey) 2: 261. 1832; C.B. Clarke in Hook.f., Fl. Brit. India 2: 743. 1879.
Alangium begoniifolium (Roxb.) Baill., Hist. pl. 6: 270. 1876.
E N NE & S India, Himalayas.

Alangium javanicum (Blume) Wangerin in Engl., Pflanzenr. IV. 220b (Heft 41): 14. 1910; K.M. Matthew in Fasc. fl. India 19: 4. 1988.
Styrax javanicum Blume, Bijdr. 671. 1825.
Marlea ebenacea C.B. Clarke in Hook.f., Fl. Brit. India 2: 742. 1879.
Karangolum ebenaceum (C.B. Clarke) Kuntze, Revis. gen. pl. 1: 273. 1891.
Alangium ebenaceum (C.B. Clarke) Harms in Engl. & Prantl, Nat. Pflanzenfam. III. 8: 262. 1898.
Andaman & Nicobar Islands.

Alangium salviifolium (L.f.) Wangerin in Engl., Pflanzenr. IV. 220b (Heft 41): 9. 1910; K.M. Matthew & Britto in K.M. Matthew, Fl. Tamilnadu Carnatic 3 (1): 687. 1983.
Grewia salvifolia L.f., Suppl. pl. 409. 1782.
Alangium decapetalum Lam., Encycl. 1: 174. 1783; Wight, Icon. pl. Ind. orient. t. 194. 1839.
Alangium hexapetalum Lam., Encycl. 1: 175. 1783.
Alangium sundanum Miq., Fl. Ned. Ind. 1: 774. 1856.

Alangium lamarckii Thwaites, Enum. pl. zeyl. 133. 1859; Bedd., Fl. sylv. S. India t. 215. 1872; C.B. Clarke in Hook.f., Fl. Brit. India 2: 741. 1879.
Alangium lamarckii var. *glabdulosa* C.B. Clarke in J.Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 71: 77. (1902) 1903.
Alangium salviifolium ssp. *hexapetalum* (Lam.) Wangerin in Engl., Pflanzenr. IV. 220b (Heft 41) : 9. 1910.
Alangium salviifolium ssp. *decapetalum* (Lam.) Wangerin in Engl., Pflanzenr. IV. 220b (Heft 41): 11. 1910.
Alangium salviifolium ssp. *sundanum* (Miq.) Bloemb. in Bull. Jard. Bot. Buitenzorg ser. 3, 16: 156. 1939.
Throughout India including Andaman & Nicobar Islands.

AMARANTHACEAE

ACHYRANTHES L., Sp. pl. 204. 1753.

Achyranthes aspera L., Sp. pl. 204. 1753; Wight, Icon. pl. Ind. orient. t. 1777. 1852; Hook.f., Fl. Brit. India 4: 730. 1885.
var. **aspera**.
Throughout India.

var. **argentea** Hook.f., Fl. Brit. India 4: 730. 1885; B.M. Sharma & Kachroo, Fl. Jammu 272. 1981.
Achyranthes argentea Thwaites, Enum. pl. zeyl. 249. 1861 non Lam., 1785.
Gujarat, Rajasthan, Himalayas.

var. **indica** L., Sp. pl. 204. 1753; H. Hara , Fl. E. Himal. 76. 1966.
E Himalaya.

var. **pubescens** (Moq.) C.C. Towns. in Kew Bull. 29: 473. 1974; N. Rani in J. Bombay Nat. Hist. Soc. 82: 446,f. 3. 1985.
Tamilnadu.

var. **rubro-fusca** (Wight) Hook.f., Fl. Brit. India 4: 730. 1885.
Achyranthes rubro-fusca Wight, Icon. pl. Ind. orient. t. 1778. 1852.
SW Ghats.

Achyranthes bidentata Blume, Bijdr. 545. 1826; Wight, Icon. pl. Ind. orient. t. 1779. 1852; Hook.f., Fl. Brit. India 4: 730. 1885.
Throughout India including temperate & subtropical Himalayas.

Achyranthes coynei Santapau in Kew Bull. 1948: 488. 1949.
Maharashtra.

Achyranthes porphyristachya Wall. ex Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 316. 1849; H. Hara, Fl. E. Himal. 76. 1966.
Achyranthes aspera var. *porphyristachya* (Wall. ex Moq.) Hook.f., Fl. Brit. India 4: 730. 1885.
Peninsular India, sub Himalayan tracts, Upper Gangetic Plains.

Achyranthes shahii M.R. & S.M. Almeida in M.R. Almeida , Fl. Maharashtra 4A : 195. 2003.
Maharashtra.
Notes: 1. *Achyranthes nasikensis* M.R. Almeida & Such. Dutta in M.R. Almeida, op. cit. 194. is apparently invalid as the holotype is not indicated as required by ICBN.
2. *Achyranthes zaririi* M.R. & S.M. Almeida in M.R. Almeida, op.cit. 196: the author(s) have indicated *Achyranthes argentea* Thwaites, Enum. pl. zeyl. 249. 1861 non Lam., 1785 as a synonym. Hook.f., Fl. Brit. India 4: 730. 1885 - treated this as a variety of *Achyranthes aspera*.
Why the author(s) have chosen to describe this as a new species - provide a holotype and Latin diagnosis too- we are unable to comprehend. It is obvious the authors have not gone through the views of Hook.f. (op. cit.).

AERVA Forssk., Fl. aegypt.-arab. 170. 1775, nom. cons.

Aerva javanica (Burm.f.) Juss. ex Schult., Syst. veg. 5: 565. (1819) 1820; Wight, Icon. pl. Ind. orient. t. 876. 1844 - 45; Hook.f., Fl. Brit. India 4: 727. 1885; C.C. Towns. in Dassan. & Fosberg (Eds.), Rev. handb. fl. Ceylon 1: 31. 1980.
Celosia lanata L., Sp. pl. 298. 1753 non *Aerva lanata* Juss.,1803.
Iresine persica Burm.f., Fl. indica 212, t. 60, f. 1. 1768.
Iresine javanica Burm.f., Fl. indica 212, t. 65, f. 2. 1768.
Aerva tomentosa Forssk., Fl. aegypt.-arab. 170. 1775.
Aerva persica (Burm.f.) Merr. in Philipp. J. Sci. 19: 348. 1921.
var. **javanica.**
Throughout India.

var. **bovei** Webb in Hook., Niger Fl. 173. 1849; C. C. Towns. in Kew Bull. 29: 463. 1974; B.V. Shetty & R.P. Pandey, Fl. Tonk dist. 163. 1983.
Aerva pseudolanata Blatt. & Hallb. in J. Bombay Nat. Hist. Soc. 26: 816. 1919.
Himachal Pradesh, Punjab plains, Rajasthan.

Aerva lanata (L.) Juss. in Ann. Mus. Natl. Hist. Nat. 2: 131. 1803; Wight, Icon. pl. Ind. orient. t. 723. 1840; Hook.f., Fl. Brit. India 4: 728. 1885.
Achyranthes lanata L., Sp. pl. 204. 1753.
Aerva floribunda Wight, Icon. pl. Ind. orient. t. 1776, bis A. 1852.
Throughout India including Andaman & Nicobar Islands.

Aerva sanguinolenta (L.) Blume, Bijdr. 547. 1825; Santapau in Rec. Bot. Surv. India 16 (1): 223. 1967 (3rd rev. ed.).
Achyranthes sanguinolenta L., Sp. pl. ed. 2. 294. 1762.
Aerva scandens Wall. ex Moq. in DC., Prodr. (Ed. A. DC.) 13(2): 302. 1849; Wight, Icon. pl. Ind. orient. t. 724. 1843; Hook.f., Fl. Brit. India 4: 727. 1885.
Throughout India.

Aerva wightii Hook.f., Fl. Brit. India 4: 728. 1885.
W Ghats (Maharashtra ? Tamilnadu).

ALLMANIA R. Br. ex Wight in J. Bot. (Hooker) 1: 226. 1834.

Allmania nodiflora (L.) R. Br. ex Wight in J. Bot. (Hooker) 1: 227, t. 128. 1834; Hook.f., Fl. Brit. India 4: 716. 1885; Mabb. in Taxon 26: 533. 1977.
Celosia nodiflora L., Sp. pl. 205. 1753.
Allmania albida R. Br. ex Hook.f., Fl. Brit. India 4: 717. 1885.
Allmania nodiflora var. *longepedunculata* Trimen, Handb. fl. Ceylon 3: 394. 1895.
Allmania longepedunculata (Trimen) Gamble, Fl. Madras 1168. 1925 (2: 818. 1967, Repr.).
var. **nodiflora.**
E & S India, Sikkim terai.

var. **angustifolia** Hook.f., Fl. Brit. India 4: 717. 1885.
N & S India, sub Himalayan tracts, Upper Gangetic Plains.

var. **aspera** (Roth) Hook.f., Fl. Brit. India 4: 717. 1885.
Celosia aspera Roth, Nov. pl. sp. 173. 1821.
Chamissoa aspera (Roth) Wight, Icon. pl. Ind. orient. t. 1772. 1852.
S India.

var. **dichotoma** (Heyne ex Roth) Hook.f., Fl. Brit. India 4: 717. 1885.
Celosia dichotoma Heyne ex Roth, Nov. pl. sp. 172. 1821.
Peninsular India.

var. **procumbens** Hook.f., Fl. Brit. India 4: 717. 1885.
S India.

var. **roxburghii** Hook.f., Fl. Brit. India 4: 717. 1885.
E & S India.

ALTERNANTHERA Forssk., Fl. aegypt.-arab. 28. 1775.

Alternanthera bettzickiana (Regel) G. Nicholson, Ill. dict. gard. ed. 1. 59. 1884; Kumari in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 190. 1987.
Telanthera bettzickiana Regel in Gartenflora 11: 178. 1862.
Alternanthera ficoidea (L.) R. Br. ssp. *bettzickiana* (Regel) Backer in Steenis, Fl. males. ser. I, 4: 594. 1949.
Alternanthera tenella Colla var. *bettzickiana* (Regel) Veldkamp in Taxon 27: 313. 1978.
E N NE & Peninsular India, W Himalaya.

Alternanthera brasiliana (L.) Kuntze, Rev. gen. pl. 2: 537. 1891; Gogoi & M. Bhaumik in J. Econ. Taxon. Bot. 30: 985. 2006.
Gomphrena brasiliana L., Cent. pl. II: 13. 1756 & Amoen. acad. 4: 310. 1759.
NE India.

Alternanthera caracasana Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 2: (ed. quarto) 205. 1818; Naqshi in J. Econ. Taxon. Bot. 2: 250. 1981; M.H. Reddy & R.R.V. Raju, ibid., 21: 585. (1997) 1998.
NW Himalaya, S India.

Alternanthera ficoidea (L.) P. Beauv., Fl. Oware 2: 66, t. 99, f. 1. 1818; G.L. Shah, Fl. Gujarat 590. 1978.
Gomphrena ficoidea L., Sp. pl. 225. 1753.
N & S India.

Alternanthera maritima (Moq.) Mears in Proc. Acad. Nat. Sci. Philadelphia 129: 11. 1977; M.H. Reddy & R.R.V. Raju in J. Econ. Taxon. Bot. 21: 585. (1997) 1998.
Telanthera maritima Moq. in DC., Prodr. (Ed. A.DC.) 13 (2):365. 1849.
Andhra Pradesh (Cultivated).

Alternanthera peploides (Willd. ex Roem. & Schult.) Urb. in Repert. Spec. Nov. Regni Veg. 15: 168. 1918; Majeed Kak in J. Econ. Taxon. Bot. 12: 150. 1988.
Illecebrum peploides Willd. ex Roem. & Schult. in Schult., Syst. veg. 5: 517. (1819) 1820.
NW Himalaya.

Alternanthera philoxeroides (Mart.) Griseb. in Abh. Königl. Ges. Wiss. Göttingen 24: 36. 1879; Maheshw. in Bull. Bot. Surv. India 6: 313 - 314. 1964.
Bucholzia philoxeroides Mart., Beitr. Amarantac. 107, n. 5. 1825.
Almost throughout India including NW Himalaya.

Alternanthera polygonoides R. Br. ex Sweet, Hort. suburb. Lond. 48. 1818; Babu, Herb. fl. Dehra Dun 428. 1977.
Alternanthera paronychioides A. St.-Hil., Voy. distr. diam. 2 (2): 43. 1833; Veldkamp in Blumea 19: 167. 1971.
Alternanthera ficoidea ssp. *bettzickiana* var. *paronychioides* Pedersen in Darwiniana 14: 437.1967.
Throughout India.

Alternanthera pungens Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 2: 206. 1818; Santapau in Rec. Bot. Surv. India 16 (1): 225. 1967 (3rd rev. ed.).
Achyranthes repens L., Sp. pl. 205. 1753.
Alternanthera echinata Sm. in Rees, Cycl. 39 (Suppl.) no. 10. 1819.
Alternanthera repens (L.) Link, Enum. hort. berol. alt. 1: 154. 1821 non J.F. Gmel., 1791.
Almost throughout India.

Alternanthera sessilis (L.) R. Br. ex DC., Cat. pl. horti monsp. 77. 1813; Wight, Icon. pl. Ind. orient. t. 727. 1843; Hook.f., Fl. Brit. India 4: 731. 1885.
Gomphrena sessilis L., Sp. pl. 225. 1753.
Alternanthera triandra Lam., Encycl. 1: 95. 1783.
Alternanthera repens J. F. Gmel., Syst. nat. ed. 13. 2 (1): 106. 1791.
Alternanthera nodiflora R. Br., Prodr. 417. 1810; Hook.f., Fl. Brit. India 4: 732. 1885.
Alternanthera sessilis var. *tenuissima* Backer in Steenis, Fl. males. ser. I, 4: 93. 1949.
Alternanthera polygonoides var. *erecta* sensu G.P. Shrivast. & Santapau in J. Bombay Nat. Hist. Soc. 52: 957. 1955 non Mart., 1826.
Throughout hotter parts of India including Andaman & Nicobar Islands.

Alternanthera tenella Colla in Mem. Reale Accad. Sci. Torino 33: 131, t. 9. 1820; A. Mukh. & Nambhata in Geobios New Rep. 7: 43. 1988.
var. **tenella**.
E & Peninsular India.

var. **versicolor** (Lem.) Veldkamp in Taxon 30: 208. 1981; B. M. Sharma & Jamwal in Indian J. Forest. 11: 86, f. 1. 1988.
Telanthera ficoides var. *versicolor* Lem., Ill. hortic. 12, t. 440. 1865.
Alternanthera versicolor (Lem.) Hort ex Regel in Gartenflora 18: 108. 1869.
Alternanthera pulchella Kunth var. *versicolor* (Lem.) M.R.Almeida, Fl. Maharashtra 4A: 202. 2003.
E N & Peninsular India.

AMARANTHUS L., Sp. pl. 989. 1753.

Amaranthus blitum L., Sp. pl. 990. 1753; Hook.f., Fl. Brit. India 4: 721. 1885; Filias, Gaull. & Guédès in Taxon 29: 149. 1980.
E Himalaya (weed in waste places).

Amaranthus caturus B. Heyne ex Hook.f., Fl. Brit. India 4: 720. 1885.
Peninsular India.

Amaranthus caudatus L., Sp. pl. 990. 1753; Hook.f., Fl. Brit. India 4: 719. 1885.
Cultivated in various parts of India.

Amaranthus dubius Mart. ex Thell., Fl. adv. Montpellier 203. 1912; Naik in Proc. Indian Acad. Sci. 71B: 229. 1970.
Gujarat, Maharashtra.

Amaranthus graecizans L., Sp. pl. 900. 1753; M.K. Kaul, Weed fl. Kashmir valley 244. 1986.
ssp. **graecizans**.
NW Himalaya.

ssp. **aschersonianus** (Thell.) Costea, D.M. Brenner & Tardif in Econ. Bot. 57: 646. (2003) 2004.
Amaranthus angustifolius Lam. ssp. *aschersonianus* Thell. in Asch. & Graebn., Syn. mitteleur. Fl. 5: 309. 1914.
Amaranthus roxburghianus Nevski var. *aschersonianus* (Thell.) N.C. Nair in J. Bombay Nat. Hist. Soc. 73: 61. 1976.
Throughout India.

ssp. **silvestris** (Vill.) Brenan in Watsonia 4: 273. 1961; C. C. Towns. in Nasir & Ali (Eds.), Fl. W. Pakistan 71: 19. 1974.
Amaranthus silvestris Vill., Cat. jard. pl. Strasbourg 111. 1807.
Amaranthus blitum var. *silvestris* (Vill.) Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 263. 1849; Hook.f., Fl. Brit. India 4: 721. 1885 ('sylvestris').
NW India.

ssp. **thellungianus** (Nevski ex Vassilcz.) Gusev in Bot. Zhurn. 57: 462. 1972; C. C. Towns. in Nasir & Ali (Eds.), Fl. W. Pakistan 71: 18. 1974.
Amaranthus thellungianus Nevski ex Vassilcz. in Kom., Fl. URSS 6: 365. 1936.
Amaranthus polygonoides sensu Roxb., Fl. ind. (Ed. Carey) 3: 602. 1832 non L., 1759; N.C. Nair in Bull. Bot. Surv. India 8: 88. 1966.
Amaranthus blitum var. *polygonoides* Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 263. 1849.
Amaranthus polygamus sensu Hook.f., Fl. Brit. India 4: 721. 1885 non L., 1759.
Amaranthus polygamus var. *angustifolia* Hook.f., Fl. Brit. India 4: 721. 1885.
Amaranthus roxburghianus Nevski in Trudy Bot. Inst. Akad. Nauk., SSSR, ser. 1, Fl. Sist. Vyss. Rast. 4: 311. 1937 non H.W. Kung, 1935.
Amaranthus graecizans var. *polygonoides* (Moq.) Aellen in Rech. f., Fl. iran. 91: 11. 1972.
Amaranthus roxburghianus var. *angustifolius* (Moq.) N.C. Nair in J. Bombay Nat. Hist. Soc. 73: 61. 1976.
Throughout India.

Amaranthus hybridus L., Sp. pl. 990. 1753; C. C. Towns. in Dassan. & Fosberg (Eds.), Rev. handb. fl. Ceylon 1: 13. 1980.
Amaranthus cruentus L., Syst. nat. ed. 10. 2: 1269. 1759.
Amaranthus paniculatus L., Sp. pl. ed. 2. 1406. 1763; Hook.f., Fl. Brit. India 4: 718. 1885.
Amaranthus chlorostachya Willd., Hist. Amaranth. 34, t. 10, f. 19. 1790.
Amaranthus frumentaceus Buch.-Ham. in Roxb., Fl. ind. (Ed. Carey) 3: 609. 1832; Wight, Icon. pl. Ind. orient. t. 720. 1840.
Amaranthus hybridus ssp. *cruentus* (L.) Thell., Fl. adv. Montpellier 205. 1912.
Amaranthus hybridus ssp. *cruentus* var. *paniculatus* (L.) Thell. in Asch. & Graebn., Syn. mitteleur. Fl. 5: 247. 1914.
Amaranthus hybridus ssp. *incurvatus* var. *paniculatus* (L.) Mansf. in Kulturpflanze Beih. 2: 54. 1959.
var. **hybridus**.
Cultivated throughout India.

var. **erythrostachys** Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 259. 1849.
S India.

Amaranthus lividus L., Sp. pl. 990. 1753; G.L. Shah, Fl. Gujarat 592. 1978.
ssp. **lividus**.
var. **lividus**.
Cultivated throughout India.

var. **ascendens** Thell. in Asch. & Graebn., Syn. mitteleur. Fl. 5: 247. 1914; Raizada & H.O. Saxena in J. Bombay Nat. Hist. Soc. 64: 89. 1971.
Sub Himalayan tracts & Upper Gangetic Plains.

ssp. **polygonoides** (Zoll. ex Moq.) Probst in E. W. Straub, Wooladvent Mitt. 74. 1949; Bennet in J. Bombay Nat. Hist. Soc. 68: 491. 1971.
Euxolus viridis (L.) Moq. var. *polygonoides* Zoll. ex Moq. in DC., Prodr. (Ed. A.DC.) 13 (2): 274. 1849.
Amaranthus blitum var. *oleraceus* Hook.f., Fl. Brit. India 4: 721. 1885 non *Amaranthus oleraceus* L., Sp. pl. 1403. 1753.

Amaranthus blitum ssp. *polygonoides* (Zoll. ex Moq.) Carretero in Anales Inst. Bot. Cavanilles 41(2): 276. (1984) 1985.
W Bengal (Cultivated).

Amaranthus palmeri S. Watson in Proc. Amer. Acad. Arts 12: 274. 1877; B.V. Shetty & V. Singh, Fl. Rajasthan 2: 728. 1991.
E N & NW India.
Note: A brief report of the sudden appearance of this dioecious amaranth in India from Patna is recorded and some of its implications discussed. This plant is a native to south-west of North America (V. Thakur in J.Indian Bot.Soc. 43: 573 – 576. 1964).

Amaranthus polygonoides L., Pl. jamaic. pug. 2: 27. 1759; Naik in J. Bombay Nat. Hist. Soc. 64: 134. 1967 & in Indian Forester 95: 415, f. A-C. 1969.
Karnataka, Maharashtra.

Amaranthus retroflexus L., Sp. pl. 991. 1753; Santapau in Rec. Bot. Surv. India 16 (1): 223. 1967 (3rd rev. ed).
Maharashtra.

Amaranthus spinosus L., Sp. pl. 991. 1753; Wight, Icon. pl. Ind. orient. t. 513. 1841; Hook.f., Fl. Brit. India 4: 718. 1885.
Throughout India.

Amaranthus tenuifolius Willd., Sp. pl. 4: 381. 1805; Hook.f., Fl. Brit. India 4: 722. 1885.
E N to W India.

Amaranthus tricolor L., Sp. pl. 989. 1753; Santapau in Rec. Bot. Surv. India 16 (1): 222. 1967 (3rd rev. ed.).
Amaranthus mangostanus L., Cent. pl. I: 32. 1755; Hook.f., Fl. Brit. India 4: 720. 1885.
Amaranthus gangeticus L., Syst. veg. ed. 10. 1268. 1759; Hook.f., Fl. Brit. India 4: 719. 1885.
Amaranthus oleraceus Roxb., Fl. ind. (Ed. Carey) 3: 605. 1832 non L., 1753; Wight, Icon. pl. Ind. orient. t. 715. 1840.
Amaranthus gangeticus var. *tristis* Prain, Bengal pl. 870. 1903 (2: 650. 1963, Repr. ed.).
Amaranthus gangeticus var. *oleraceus* (Roxb.) Haines, Bot. Bihar Orissa pt. 5: 763. 1924 (2: 801. 1961, Repr.).
Cultivated throughout India.

Amaranthus viridis L., Sp. pl. ed. 2. 1405. 1763; Hook.f., Fl. Brit. India 4: 720. 1885.
Chenopodium caudatum Jacq., Collectanea 2: 235. 1788 & Icon. pl. rar. t. 344. 1793.
Amaranthus gracilis Desf., Tabl. école bot. 43. 1804.
Amaranthus fasciatus Roxb., Fl. ind. (Ed. Carey) 3: 609. 1832; Wight, Icon. pl. Ind. orient. t. 717. 1840.
Euxolus caudatus (Jacq.) Moq. in DC., Prodr. (Ed. A. DC.)13 (2) : 274. 1849; Wight, Icon. pl. Ind. orient. t. 1773. 1852.
Throughout India in waste places.
Note: Bao Bojian, Steven E. Clemants & Thomas Borsch in Fl. China 9: 415 - 429. 2003 -which is available online- indicate that *Amaranthus roxburghianus* H.W. Kung, Fl. illust. N. China 4: 19. 1935 is available in India – without specific locality; they note that *Amaranthus gracilis* Desf. and *Amaranthus viridis* Desf. (!) have been misapplied to this species.

BOSEA L., Sp. pl. 225. 1753.

Bosea amherstiana (Moq.) Hook.f., Fl. Brit. India 4: 716. 1885.
Rodetia amherstiana Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 323. 1848.
Temperate W Himalaya.

CELOSIA L., Sp. pl. 205. 1753.

Celosia argentea L., Sp. pl. 205. 1753; Wight, Icon. pl. Ind. orient. t. 1767. 1852; Hook.f., Fl. Brit. India 4: 714. 1885.
var. **argentea**.
Throughout India.

var. **cristata** (L.) Kuntze, Revis. gen. pl. 2: 541. 1891; Haines, Bot. Bihar Orissa 2: 797. 1961 (Repr.).
Celosia cristata L., Sp. pl. 205. 1753; Hook.f., Fl. Brit. India 4: 715. 1885.
Throughout India.
Note: *Celosia argentea* var. *mumbaiana* M.R.Almeida, Fl. Maharashtra 4A : 210. 2003 is invalid.

Celosia polygonoides Retz., Observ. bot. 2: 12. 1781; Hook.f., Fl. Brit. India 4: 715. 1885.
S India.

Celosia pulchella Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 238. 1849; Hook.f., Fl. Brit. India 4: 715. 1885.
SW Ghats (Nilgiris).

CENTROSTACHYS Wall. in Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 497. 1824.

Centrostachys aquatica (R. Br.) Wall. ex Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 321. 1849; C.J. Saldanha, Fl. Karnataka 1: 169. 1984.
Achyranthes aquatica R. Br., Prodr. 417. 1810; Hook.f., Fl. Brit. India 4: 730. 1885.
Throughout India including E Himalaya.

CYATHULA Blume, Bijdr. 548. 1826, nom. cons.

Cyathula capitata Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 329. 1849; Hook.f., Fl. Brit. India 4: 722. 1885.
Tempertate Himalayas.

Cyathula officinalis K.C. Kuan in Acta Phytotax. Sin. 14: 60. 1976.
C Himalaya.

Cyathula prostrata (L.) Blume, Bijdr. 549. 1826; Wight, Icon. pl. Ind. orient. t. 733. 1843; Hook.f., Fl. Brit. India 4: 723. 1885.
Achyranthes prostrata L., Sp. pl. ed. 2, 296. 1762.
Desmochaeta prostrata (L.) DC., Cat. pl. horti monsp. 108. 1813; Wight, Icon. pl. Ind. orient. t. 733. 1843.
Andaman & Nicobar Islands, E Himalaya, E NE & Peninsular India.

Cyathula tomentosa (Roth) Moq. in DC., Prodr. (Ed.A.DC.) 13 (2): 327. 1849; Hook.f., Fl. Brit. India 4: 722. 1885.
Achyranthes tomentosa Roth, Nov. pl. sp. 167. 1821.
N NE & S India, Temperate Himalayas.

DEERINGIA R. Br., Prodr. 413. 1810.

Deeringia amaranthoides (Lam.) Merr., Interpr. Herb. amboin. 211. 1917; Kanjilal et al., Fl. Assam 4: 3. 1940.
Achyranthes amaranthoides Lam., Encycl. 1: 548. 1785.
Deeringia celosioides R. Br., Prodr. 413. 1810; Hook.f., Fl. Brit. India 4: 714. 1885.
Deeringia baccata Moq. in DC., Prodr. (Ed. A. DC.) 13 (2): 236. 1849.
E N NE & S India, Subtropical Himalayas.

DIGERA Forssk., Fl. aegypt.-arab. 65. 1775.

Digera muricata (L.) Mart., Beitr. Amarantac. 77. 1825; Backer in Steenis, Fl. males. ser. I, 4: 80. 1949.
Achyranthes muricata L., Sp. pl. ed. 2. 295. 1762; Wight, Icon. pl. Ind. orient. t. 732. 1840.
Achyranthes alternifolia L., Mant. pl. 1: 50. 1767 non L.f., 1782.
Digera arvensis Forssk., Fl. aegypt.-arab. 65. 1775; Hook.f., Fl. Brit. India 4: 717. 1885.
Digera alternifolia (L.) Asch. in Schweinf., Beitr. Fl. Aethiop. 180. 1867.
Throughout India.

GOMPHRENA L., Sp. pl. 224. 1753.

Gomphrena celosioides Mart., Beitr. Amarantac. 93. 1825; Mooney, Suppl. bot. Bihar Orissa 129. 1950.
Cultivated and run wild.

Gomphrena ciliata Raf., Autik. bot. 152. 1840.
Introduced.

Gomphrena dispersa Standl. in Contr. U.S. Natl. Herb. 18: 91. 1916; Raizada in Indian Forester 67: 20. 1941.
NW Himalaya (introduced).

Gomphrena globosa L., Sp. pl. 224. 1753; Wight, Icon. pl. Ind. orient. t. 1784. 1852; Hook.f., Fl. Brit. India 4: 732. 1885.
Garden escape.

Gomphrena serrata L., Sp. pl. 224. 1753; Mears in Taxon 29: 86. 1980.
Gomphrena decumbens Jacq., Pl. hort. schoenbr. t. 482. 1805; Gamble, Fl. Madras 2: 285. 1967 (Repr.).
E & S India.

INDOBANALIA A.N. Henry & B. Roy in Bull. Bot. Surv. India 10: 274. 1969.
BANALIA Moq. in DC., Prodr. (Ed. A.DC.) 13 (2): 278. 1849 non Raf., 1840.

Indobanalia thyrsiflora (Moq.) A.N. Henry & B. Roy in Bull. Bot. Surv. India 10: 274. 1969.
Banalia thyrsiflora Moq. in DC., Prodr. (Ed.A.DC.) 13 (2): 278. 1849; Wight, Icon. pl. Ind. orient. t. 1774. 1852; Hook.f., Fl. Brit. India 4: 716. 1885.
S India.

IRESINE P. Browne, Civ. nat. hist. Jamaica 358. 1756, nom. cons.

Iresine herbstii Hook. in Gard. Chron. 1864: 654, 1206. 1864; Manilal & Sivar., Fl. Calicut 243. 1982.
E N & S India (introduced).

NOTHOSAERVA Wight, Icon. pl. Ind. orient. 6: 17. 1853.

Nothosaerva brachiata (L.) Wight, Icon. pl. Ind. orient. t. 1776, bis f. B. 1853; Hook.f., Fl. Brit. India 4: 726. 1885.
Achyranthes brachiata L., Mant. pl. 1: 50. 1767.
N & Peninsular India, Upper Gangetic Plains.

PSILOTRICHUM Blume, Bijdr. 544. 1826.
PSILOSTACHYS Hochst. in Flora 27. Beil. 1: 6. 1844 non Turcz., 1843.

Psilotrichum elliotii Baker & C.B. Clarke in Oliv., Fl. trop. Afr. (Ed. Dyer) 6 (1): 58. 1909; Verdc. in Kew Bull. 17: 492. 1964.
Psilotrichum nudum Wight, Icon. pl. Ind. orient. t. 1775. 1852 non (B. Heyne ex Wall.) Moq., 1849.
Psilotrichum calceolatum Moq. ex Hook.f., Fl. Brit. India 4: 725. 1885 nom. illeg.
S India.

Psilotrichum ferrugineum (Roxb.) Moq. in DC., Prodr. (Ed.A.DC.) 13 (2): 279. 1849; Hook.f., Fl. Brit. India 4: 725. 1885.
Achyranthes ferruginea Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 675. 1820 & 2: 502. 1824.
Psilotrichum trichotomum Blume, Bijdr. 545. 1826; Hook.f., Fl. Brit. India 4: 725. 1885.
Almost throughout India; weed in cultivated fields.

Psilotrichum nudum (B. Heyne ex Wall.) Moq. in DC., Prodr. (Ed.A.DC.) 13 (2): 280. 1849; Hook.f., Fl. Brit. India 4: 724. 1885.
Achyranthes nuda B. Heyne ex Wall. in Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 507. 1824.
Tamilnadu.

Psilotrichum scleranthum Thwaites, Enum. pl. zeyl. 248. 1861; Hook.f., Fl. Brit. India 4: 725. 1885; Gamble, Fl. Madras 2: 822. 1967 (Repr.).
Tamilnadu.

Psilotrichum sericeum (J. König ex Roxb.) Dalzell in Dalzell & A. Gibson, Bombay fl. 216. 1861; Verdc. in Kew Bull. 13: 218. 1958 & 17: 491. 1964.
Achyranthes sericea J. König ex Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 502. 1824 & (Ed. Carey) 3: 675. 1832; Wight, Icon. pl. Ind. orient. t. 726. 1843.
Psilostachys sericea (J. König ex Roxb.) Hook.f. in Benth. & Hook.f., Gen. pl. 3: 32. 1880; Hook.f., Fl. Brit. India 4: 726. 1885.
Gujarat, Tamilnadu.

PUPALIA Juss. in Ann. Mus. Natl. Hist. Nat. 2: 132. 1803, nom. cons.

Pupalia lappacea (L.) Juss. in Ann. Mus. Natl. Hist. Nat. 2: 132. 1803; Hook.f., Fl. Brit. India 4: 724. 1885; C. C. Towns. in Kew Bull. 34: 135. 1979.
Achyranthes lappacea L., Sp. pl. 204. 1753.
Achyranthes atropurpurea Lam., Encycl. 1: 546. 1785.
Desmochaeta atropurpurea (Lam.) DC., Cat. pl. horti monsp. 102. 1813; Wight, Icon. pl. Ind. orient. t. 731. 1843.
Pupalia atropurpurea (Lam.) Moq. in DC., Prodr. (Ed.A.DC.) 13 (2): 331. 1849; Hook.f., Fl. Brit. India 4: 723. 1885.
Aerva velutina Moq. in DC., Prodr. (Ed. A.DC.) 13 (2): 301. 1849.
Pupalia lappacea var. *velutina* (Moq.) Hook.f., Fl. Brit. India 4: 724. 1885.
var. **lappacea.**
Throughout India including Himalayas.

var. **orbiculata** (B. Heyne ex Wall.) C. C. Towns. in Kew Bull. 29: 469. 1974.
Achyranthes orbiculata B. Heyne ex Wall. in Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 507. 1824.
Pupalia orbiculata (B. Heyne ex Wall.) Wight, Icon. pl. Ind. orient. t. 1783. 1852; Hook.f., Fl. Brit. India 4: 724. 1885.
Peninsular India, Rajasthan.

STILBANTHUS Hook.f. in Hooker's Icon. Pl. ser. 3, 13: 67. 1879.

Stilbanthus scandens Hook.f. in Hooker's Icon. Pl. ser. 3, 13: 67, t. 1286. 1879 & Fl. Brit. India 4: 729. 1885.
E & NE India, E Himalaya.

TRICHURIELLA Bennet in Indian J. Forest. 8: 86. 1985.
TRICHURUS C. C. Towns. in Kew Bull. 29: 466. 1974 non Clem., 1896.

Trichuriella monsoniae (L.f.) Bennet in Indian J. Forest. 8: 86. 1983.
Illecebrum monsoniae L.f., Suppl. pl. 161. 1782.

Celosia monsoniae (L.f.) Retz., Observ. bot. 2: 13. 1781.
Aerva monsoniae (L.f.) Mart. in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 13 (1): 291. 1826; Hook.f., Fl. Brit. India 4: 728. 1885.
Trichurus monsoniae (L.f.) C. C. Towns. in Kew Bull. 29: 466. 1974.
C. E & Peninsular India.

ANACARDIACEAE

ANACARDIUM L., Sp. pl. 383. 1753.

Anacardium occidentale L., Sp. pl. 383. 1753; Bedd., Fl. sylv. S. India t. 163. 1871; Hook.f., Fl. Brit. India 2: 20. 1876.
Hotter parts of India, especially near coastal areas; cultivated.

BOUEA Meisn., Pl. vasc. gen. 1: 75; 2: 55. 1837.

Bouea oppositifolia (Roxb.) Meisn., Pl. vasc. gen. 1: 75; 2: 55. 1837; Airy Shaw in Kew Bull. 20: 87. 1966.
Mangifera oppositifolia Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 434. 1824 & (Ed. Carey) 1: 640. 1832.
Bouea burmanica Griff., Pl. Cantor 14. 1841; Hook.f., Fl. Brit. India 2: 21. 1876.
Andaman Islands.

BUCHANANIA Spreng. in J. Bot. (Schrader) 1800 (2): 234 (1801) 1802.

Buchanania arborescens (Blume) Blume, Mus. bot. 1: 183. 1850; Ding Hou in Steenis, Fl. males. ser. 1, 8: 418. 1978.
Comigeton arborescens Blume, Bijdr. 1156. 1826.
Buchanania florida Schauer in Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 19 (Suppl.1): 481. 1843; Brandis, Indian trees 205. 1906.
Andaman Islands.

Buchanania axillaris (Desr.) Ramamoorthy in C.J. Saldanha & Nicolson, Fl. Hassan dist. 374. 1976.
Mangifera axillaris Desr. in Lam., Encycl. 3: 697. 1792.
Buchanania angustifolia Roxb., Pl. Coromandel 3: t. 262. 1820 & Fl. ind. (Ed. Carey) 2: 386. 1832; Wight, Icon. pl. Ind. orient. t. 101. 1839; Hook.f., Fl. Brit. India 2: 23. 1876.
Buchanania intermedia Wight, Icon. pl. Ind. orient. t. 81. 1838.
Buchanania lucida Blume var. *intermedia* (Wight) Hook.f., Fl. Brit. India 2: 24. 1876.
Peninsular India.

Buchanania barberi Gamble in Bull. Misc. Inform. 1916: 135. 1916 (Fl. Madras 1: 184. 1967, Repr.).
Kerala.

Buchanania lanceolata Wight, Icon. pl. Ind. orient. t. 237. 1839; Hook.f., Fl. Brit. India 2: 24. 1876.
Kerala.

Buchanania lancifolia Roxb., Fl. ind. (Ed. Carey) 2: 386. 1832; Brandis, Indian trees 205. 1906.
Andaman Islands.
Note: Hook.f., Fl. Brit. India 2: 24. 1876 listed this under " Doubtful species" and that too from Chittagong – presently in Bangladesh.

Buchanania lanzan Spreng. in J. Bot. (Schrader) 1800 (2): 234. (1801) 1802; T. Cooke, Fl. Bombay 1: 293. 1967 (Repr.).
Buchanania latifolia Roxb., Fl. ind. (Ed. Carey) 2: 385. 1832; Bedd., Fl. sylv. S. India t. 165. 1871; Hook.f., Fl. Brit. India 2: 23. 1876.
Hot, drier parts of India.

Note: M.R. Almeida provides a new combination for this species in his Fl. Maharashtra 1: 287. 1996 i.e., *Buchanania cochinchinensis* based on *Toluifera cochinchinensis* Lour., Fl. cochinch. 262. 1790 (***Loureira cochinchinensis*** Meisn., Pl. vasc. gen. 53. 1837).
However, *Toluifera* Lour. 1790 (non L., 1753) is treated as *Loureira* Meisn., 1837 non Raeusch., 1797 = *Glycosmis* Corrêa (Rutaceae). *See* Airy Shaw in Willis, Dict. fl. pl. & ferns 1158. 1973 (Eighth ed.). Neither E.R. Farr et al. – *Index nominum genericorum (plantarum)* 1979 – nor Mabberley , *The Plant Book*, second ed. 1998- have included *Toluifera*.

Buchanania sessilifolia Blume, Mus. bot. 1: 184. 1850; Ding Hou in Steenis, Fl. males. ser. 1, 8: 418. 1978.
Buchanania acuminata Turcz. in Bull. Soc. Imp. Naturalistes Moscou 31: 472. 1858; C.E.C. Fisch. in Rec. Bot. Surv. India 12 (2): 88. 1938.
Andaman Islands, NE India.

Buchanania splendens Miq., Fl. Ned. Ind., Eerste bijv. pt. 3: 524. 1861.
Buchanania platyneura Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 46 (2): 125. 1876; Brandis, Indian trees 205. 1906.
Andaman & Nicobar Islands.

CHOEROSPONDIAS B.L. Burtt & A.W. Hill in Ann. Bot. (London) n.s. 1: 254. 1937.

Choerospondias axillaris (Roxb.) B.L. Burtt & A.W. Hill in Ann. Bot. (London) n.s. 1: 254. 1937 & in Bull. Misc. Inform. 1937: 407. 1937.
Spondias axillaris Roxb., Fl. ind. (Ed. Carey) 2: 453. 1832; Hook.f., Fl. Brit. India 2:42. 1876; Brandis, Indian trees 201. 1906; Kanjilal et al., Fl. Assam 1: 341. 1936.
E Himalaya, NE India.
Note : D. Chandra described a new species, *Choerospondias auriculata* in J. Bombay Nat. Hist. Soc. 75: 459. (1978) 1979 which turned out to be *Ailanthus altissima* (Mill.) Swingle (Simaroubaceae) — cf. R.L. Mitra & Murthy in Bull. Bot. Surv. India 38: 135. (1996) 2001.

COTINUS Mill., Gard. dict. abr. ed. 4. 1754.

Cotinus coggygria Scop., Fl. carniol. ed. 2. 1: 220. 1772; R.K. Gupta, Fl. nainital. 72. 1968.
Rhus cotinus L., Sp. pl. 267. 1753; Hook.f., Fl. Brit. India 2: 9. 1876.
Subtropical W Himalaya, Upper Gangetic Plains.

DOBINEA Buch.-Ham. ex D. Don, Prodr. fl. Nepal 249. 1825.

Dobinea vulgaris Buch.-Ham. ex D. Don, Prodr. fl. Nepal 249. 1825; Hiern in Hook.f., Fl. Brit. India 1: 696. 1875.
C & E Himalaya.

DRACONTOMELON Blume, Mus. bot. 1: 231. 1850.

Dracontomelon dao (Blanco) Merr. & Rolfe in Philipp. J. Sci. 3: 108. 1908 ('Dracontomelum'); Ding Hou in Steenis, Fl. males. ser. I, 8: 470. 1978.
Poupartia mangifera Blume, Bijdr. 1160. 1826, nom. illeg. excl. syn.
Paliurus dao Blanco, Fl. Filip. 174. 1837.
Dracontomelum mangiferum (Blume) Blume, Mus. bot. 1: 231, t. 42. 1850; Hook.f., Fl. Brit. India 2: 43. 1876.
Dracontomelon puberulum Miq., Fl. Ned. Ind., Eerste bijv. pt. 3: 524. 1861; Raizada in Indian Forester 94: 441. 1968.
Andaman & Nicobar Islands.

DRIMYCARPUS Hook.f., in Benth. & Hook.f., Gen. pl. 1: 424. 1862.

Drimycarpus racemosus (Roxb.) Hook.f., in Benth. & Hook.f., Gen. pl. 1: 424. 1862 & Fl. Brit. India 2: 36. 1876.
Holigarna racemosa Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 82. 1820.
Andaman Islands, E. Himalaya, NE India.

GLUTA L., Mant. pl. 2: 293. 1771.

Gluta tavoyana Wall. ex Hook.f., Fl. Brit. India 2: 22. 1876; Ding Hou in Steenis, Fl. males. ser. 1, 8: 39. 1978.
Gluta elegans Wall. var. *helferi* Hook.f., Fl. Brit. India 2: 22. 1876.
Tenasserim or Andaman Islands (J.W. Helfer).

Gluta travancorica Bedd., Fl. sylv. S. India t. 60. 1870; Hook.f., Fl. Brit. India 2: 22. 1876.
SW Ghats (Kerala, Tamilnadu).

Gluta usitata (Wall.) Ding Hou in Blumea 24: 21. 1978.
Melanorrhoea usitata Wall., Pl. asiat. rar. 1: 9, tt. 11 & 12. 1829; Hook.f., Fl. Brit. India 2: 25. 1876.
NE India.

HOLIGARNA Buch.-Ham. ex Roxb., Pl. Coromandel 3: 79. 1820, nom. cons.

Holigarna arnottiana Hook.f., Fl. Brit. India 2: 36. 1876.
Peninsular India.

Holigarna beddomei Hook.f., Fl. Brit. India 2: 38. 1876.
SW Ghats.

Holigarna caustica (Dennst.) Roxb. ex Greshoff in Meded. Lands. Plantentuin 23: 42. 1900; Deb, Fl. Tripura 1: 462. 1981.
Hadestiphylum causticus Dennst., Schlüssel Hortus malab. 30. 1818.
Holigarna longifolia Buch.-Ham. ex Roxb., Pl. Coromandel 3: 79, t. 282. 1820; Hook.f., Fl. Brit. India 2: 37. 1876; Kanjilal et al., Fl. Assam 1: 337. 1936.
NE India.

Holigarna ferruginea Marchand, Rev. Anacardiac. 171. 1869; Hook.f., Fl. Brit. India 2: 37. 1876.
Andaman & Nicobar Islands, S India.

Holigarna grahamii (Wight) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 41 (2): 305. 1872 excl. descr.; Hook. f., Fl. Brit. India 2: 37. 1876; Bennet & K.C. Sahni in Indian Forester 102: 89. 1976.
Semecarpus grahamii Wight, Icon. pl. Ind. orient. t. 235. 1839.
Holigarna wightii N.P. Balakr. in J. Bombay Nat. Hist. Soc. 63: 327. 1967.
Andaman & Nicobar Islands, Peninsular India.

Holigarna kurzii King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 512. 1897; Brandis, Indian trees 204. 1906.
Andaman Islands.

Holigarna nigra Bourd. in Indian Forester 30: 95. 1904.
SW Ghats.

LANNEA A. Rich. in Guill., Perr. & A. Rich., Fl. Senteg. tent. 153. 1831, nom. cons.
ODINA Roxb., Fl. ind. (Ed. Carey) 2: 293. 1832.

Lannea coromandelica (Houtt.) Merr. in J. Arnold Arbor. 19: 353. 1939; Santapau in Rec. Bot. Surv. India 16 (1): 51. 1967 (3rd rev. ed.).

Dialium coromandelicum Houtt., Nat. hist. 2: 39. t. 5, f.2. 1774.
Heberlia grandis Dennst., Schlüssel Hortus malab. 30. 1814.
Lannea grandis (Dennst.) Engl. in Engl. & Prantl, Nat. Pflanzenfam. Nachtr. 1: 213. 1897.
Odina wodier Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 293. 1824; Hook.f., Fl. Brit. India 2: 29. 1876.
Lannea wodier (Roxb.) Adelb. in Blumea 6: 326. 1947-1948.
Throughout the hotter parts of India including Andaman Islands.

MANGIFERA L., Sp. pl. 200. 1753.

Mangifera andamanica King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 470. 1897.
Andaman & Nicobar Islands, NE India.

Mangifera camptosperma Pierre, Fl. forest. Cochinch. t. 363 A. 1897; Thoth. & N.P. Balakr. in Bull. Bot. Surv. India 24: 175, f. 8. (1982) 1983.
Andaman & Nicobar Islands.

Mangifera indica L., Sp. pl. 200. 1753; Bedd., Fl. sylv. S. India t. 162. 1871; Hook.f., Fl. Brit. India 2: 13. 1876.
Throughout hotter parts of India.

Mangifera khasiana Pierre, Fl. forest. Cochinch. t. 364 C. 1897; Mukh. & D. Chandra in Bull. Bot. Surv. India 25: 54. 1983.
Meghalaya.

Mangifera linearifolia (Mukh.) Kosterm. in Kosterm. & J.M. Bompard, Mangoes. 78. 1993.
Mangifera camptosperma var. *linearifolia* Mukh.
India.

Mangifera nicobarica Kosterm. in Kosterm. & J.M. Bompard, Mangoes. 52. 1993.
Andaman & Nicobar Islands.

Mangifera sylvatica Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 644. 1820; Hook.f., Fl. Brit. India 2: 15. 1876.
Andaman & Nicobar Islands, F Himalaya, E & N India.

NOTHOPEGIA Blume, Mus. bot. 1: 203. 1850, nom. cons.

Nothopegia aureo-fulva Bedd. ex Hook.f., Fl. Brit. India 2: 40. 1876.
SW Ghats (Tamilnadu).

Nothopegia beddomei Gamble in Bull. Misc. Inform. 1918: 227. 1918 (Fl. Madras 1: 189. 1967, Repr.); V.S. Ramach. & V.J. Nair, Fl. Cannanore 118. 1988.
Nothopegia beddomei var. *wynaadica* J.L. Ellis & V. Chandras. in Bull. Bot. Surv. India 12: 257. (1970) 1972.
SW Ghats (Kerala, Tamilnadu).

Nothopegia castaneaefolia (Roth) Ding Hou in Blumea 24: 33. 1978.
Ficus castaneaefolia Roth, Nov. pl. sp. 389. 1821.
Goa.

Nothopegia heyneana (Hook.f.) Gamble, Fl. Madras 265. 1918 (1: 189. 1967, Repr.).
Nothopegia colebrookiana Blume var. *heyneana* Hook.f., Fl. Brit. India 2: 40. 1876.
var. heyneana.
E & S India.

var. **linearifolia** D. Chandra & R.B. Ghosh in Bangladesh J. Bot. 9: 173. 1980.
Tamilnadu.

Nothopegia monadelpha (Roxb.) Forman in Kew Bull. 53: 754. 1998.
Blackburnia monadelpha Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 435. 1820 & (Ed. Carey) 1: 415. 1832.
Pegia ?colebrookiana Wight, Icon. pl. Ind. orient. t. 239. 1839 & Ill. Ind. Bot. 1: 185. 1840.
Glycycarpus racemosus Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 39. 1850 non 1849 & Hooker's Icon. pl. ser. 2, 9: t. 842. 1852.
Nothopegia colebrookiana (Wight) Blume, Mus. bot. 1: 203, 1850; Hook.f., Fl. Brit. India 2: 40. 1876.
var. **monadelpha**.
Peninsular India.

var. **macrocarpa** (Hook.f.) Karthik. & Moorthy comb. nov.
Nothopegia colebrookiana var. *macrocarpa* Hook.f., Fl. Brit. India 2: 40. 1876.
SW Ghats (Tamilnadu).
Note : K.M. Matthew(Kew Bull. 57: 763. 2002) treats *Nothopegia colebrookiana* var. *macrocarpa* Hook.f. as a synonym under var. *colebrookiana* (Wight) K.M. Matthew whereas Forman (1998) treats it as a synonym under *Nothopegia monadelpha* (Roxb.) Forman.

K.M. Matthew's treatment is as follows:

Nothopegia monadelpha (Roxb.) Forman in Kew Bull. 53: 754. 1998.
Blackburnia monadelpha Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 435. 1820 & (Ed. Carey) 1: 425. 1832.
var. **monadelpha**.
Nothopegia colebrookiana var. *heyneana* Hook.f., Fl. Brit. India 2: 40. 1876; K.M. Matthew in Kew Bull. 46: 543. 1991.

var. **colebrookiana** (Wight) K.M. Matthew in Kew Bull. 57: 763. 2002.
Pegia colebrookiana Wight, Icon. pl. Ind. orient. t. 236. 1839 & Ill. Ind. Bot. 1: 185. 1840; K.M. Matthew in Kew Bull. 46: 543. 1991.
Nothopegia colebrookiana var. *macrocarpa* Hook.f., Fl. Brit. India 2: 40. 1876.
Glycycarpus racemosus Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 39. 1850.

Nothopegia racemosa (Dalzell) Ramamoorthy in C.J. Saldanha & Nicolson, Fl. Hassan dist. 377. 1976.
Glycycarpus racemosus Dalzell in J. Roy. Asiat. Soc. Bombay 3: 69. 1849.
Nothopegia colebrookiana sensu Hook.f., Fl. Brit. India 2: 40. 1876 p.p. non (Wight) Blume, 1850.
Nothopegia dalzellii Gamble, Fl. Madras 265. 1918 (1: 189. 1967, Repr.).
var. **racemosa.**
W Ghats.

var. **angustifolia** (Gamble) Chithra in N.C. Nair & A.N. Henry (Eds.), Fl. Tamilnadu anal. 1: 88. 1983.
Nothopegia dalzellii var. *angustifolia* Gamble, Fl. Madras 265. 1918 (1: 189. 1967, Repr.).
SW Ghats (Tamilnadu).

Nothopegia sivagiriana Murugan & Manickam in J. Econ. Taxon. Bot. 32: 522, f.1.2008.
SW Ghats (Tamilnadu).

Nothopegia travancorica Bedd. ex Hook.f., Fl. Brit. India 2: 40. 1876.
SW Ghats.

Nothopegia vajravelui K. Ravik. & V. Lakshm. in Rheedea 9: 56, f. 1, a-i. 1999.
SW Ghats (Tamilnadu).

PARISHIA Hook.f. in Trans. Linn. Soc. London 23: 169. 1860.

Parishia insignis Hook.f. in Trans. Linn. Soc. London 23: 170, t. 26. 1860 & Fl. Brit. India 2: 30. 1876.
Andaman Islands.

PEGIA Colebr. in Trans. Linn. Soc. London 15: 364. 1827.

Pegia nitida Colebr. in Trans. Linn. Soc. London 15: 364. 1827; Deb, Fl. Tripura 1: 465. 1981.
Robergia hirsuta Roxb., Fl. ind. (Ed. Carey) 2: 455. 1832.
Tapiria hirsuta (Roxb.) Hook.f. in Benth. & Hook.f., Gen. pl. 1: 423. 1862 & Fl. Brit. India 2: 28. 1876.
Himalayas, NE India.

PISTACIA L., Sp. pl. 1025. 1753.

Pistacia atlantica Desf. ssp. **cabulica** (Stocks) Rech.f., Fl. iran. 63: 5. 1969;
H.B.Naithani in J. Bombay Nat. Hist. Soc. 85: 461.1988.
Pistacia cabulica Stocks in Hooker's J. Bot. Kew Gard. Misc. 4: 143. 1852.
Pistacia mutica Fisch. & C. A. Mey. ssp. *cabulica* (Stocks) Engl. in A. & C. DC., Monogr. phan. 4: 287. 1883.
Himachal Pradesh.

Pistacia chinensis Bunge ssp. **integerrima** (J. Stewart) Rech.f., Fl. iran. 63:8.1969.
Pistacia integerrima J. Stewart in Brandis, Forest fl. N.W.India 122. 1874 & Ill. forest fl. N.W. India t. 22. 1874; Hook.f., Fl. Brit. India 2: 13.1876 p.p.
Himalayas.

Pistacia khinjuk Stocks in Hooker's J. Bot. Kew Gard. Misc. 4: 143. 1852; Rech.f. , Fl. iran.63:6.1969.
Pistacia integerrima sensu Hook.f., Fl.Brit. India 2: 13. 1876 p.p. non J. Stewart, 1874.
W Himalaya.

RHUS L., Sp. pl. 265. 1753.
TERMINTHIA Bernh. in Linnaea 12: 134. 1838.

Rhus griffithii Hook.f., Fl. Brit. India 2: 12. 1876.
E Himalaya, NE India.

Rhus hookeri K. C. Sahni & Bahadur in Indian Forester 96: 769. 1970.
Rhus insignis Hook.f., Fl. Brit. India 2: 11. 1876 non (Delile) Oliv., 1868.
E Himalaya, NE India.

Rhus kanaka R.N. De in Indian Forester 68: 65. 1942.
Cotinus kanaka (R.N.De) D.Chandra in N.P. Singh, Vohra, Hajra & D.K. Singh (Eds.), Fl. India 3: 449. 2000.
Meghalaya.

Rhus khasiana Hook.f., Fl. Brit. India 2: 10. 1876.
Meghalaya.

Rhus mysorensis G. Don, Gen. hist. 2: 74. 1832; Hook.f., Fl. Brit. India 2: 9. 1876.
N & Peninsular India.
Notes: D.Chandra & Mukh. in N.P. Singh et al.(Eds.), op.cit. 494 indicated *Rhus sinuata* Thunb., Prodr. pl. cap. 1: 52. 1794 as the correct name for *Rhus mysorensis* G. Don.
Moffett (Taxon 44: 235. 1995) has proposed that *Rhus sinuata* should be rejected in favour of *Rhus mysorensis* and it has been accepted by the Committee for *Spermatophyta* (See Brummitt in Taxon 46: 325. 1997) as well as the General Committee (See Nicolson in Taxon 48: 375. 1999) of the IAPT.

Rhus paniculata Wall. ex G. Don, Gen. hist. 2: 74. 1832; Hook.f., Fl. Brit. India 2: 10. 1876; Gamble, Fl. Madras 1: 188. 1967 (Repr.).
Terminthia paniculata (Wall. ex G. Don) C.Y. Wu & T.L. Ming in Fl. yunnan. 2: 408. 1979.
S India (Cultivated).

Rhus parviflora Roxb., Fl. ind. (Ed. Carey) 2: 100. 1832; Hook.f., Fl. Brit. India 2: 9. 1876.
Searsia parviflora (Roxb.) F.A. Barkley in Lilloa 23: 252. 1950; Mukh. & D. Chandra in Bull. Bot. Surv. India 25: 55. 1983.
C India, W Himalaya.

Rhus punjabensis J. Stewart ex Brandis, Forest fl. N. W. India 120. 1874; Hook.f., Fl. Brit. India 2: 10. 1876.
W Himalaya.

Rhus semialata Murray in Commentat. Soc. Regiae Sci. Gott. 5: 27, t. 3. 1784; Hook.f., Fl. Brit. India 2: 10. 1876.
Rhus javanica L., Sp. pl. 265. 1753 p.p.
Rhus chinensis Mill., Card. dict. ed. 8. 7. 1768; R.K. Gupta, Fl. nainital. 74. 1968.
Rhus semialata var. *roxburghii* DC., Prodr. 2: 68. 1825.
Rhus javanica var. *roxburghii* (DC.) Rehder & P. Wilson in Sarg., Pl. wilson 2: 179. 1914; D. Chandra in J. Bombay Nat. Hist. Soc. 76: 554. 1979.
E & NE India, Temperate Himalayas.

Rhus succedanea L., Mant. pl. 2: 221. 1771; Hook.f., Fl. Brit. India 2: 12. 1876.
Rhus acuminata DC., Prodr. 2: 68. 1825; Osmaston, Forest fl. Kumaon 138. 1927.
Rhus succedanea var. *acuminata* (DC.) Hook.f., Fl. Brit. India 2: 12. 1876.
Rhus succedanea var. *himalaica* Hook.f., Fl. Brit. India 2: 12. 1876.
Rhus succedanea var. *sikkimensis* Hook.f., Fl. Brit. India 2: 12. 1876.
Rhus succedanea var. *sphaerocarpa* Hook.f., Fl. Brit. India 2: 12. 1876.
Rhus himalaica (Hook.f.) D.Chandra & Mukh. in N.P. Singh et al. (Eds.), op.cit. 488.
NE India, Temperate Himalayas.

Rhus tomentosus L., Sp. pl. 266. 1753; D. Chandra & R.B. Ghosh in Indian J. Forest. 2: 264. 1979.
Tamilnadu.

Rhus wallichii Hook.f., Fl. Brit. India 2: 11. 1876.
Temperate Himalayas.

SCHINUS L., Sp. pl. 388. 1753.

Schinus molle L., Sp. pl. 388. 1753; R.R. Rao & Razi, Syn. fl. Mysore dist. 480. 1981.
S India (cultivated).

Schinus terebinthifolius Raddi in Mem. Mat. Fis. Soc. Ital. Sci. Modena, Pt., Mem. Fis. 18 (2): 399. 1820; Mukh. & D. Chandra in Bull. Bot. Surv. India 25: 55. 1983.
Cultivated.

SEMECARPUS L.f., Suppl. pl. 25, 182. 1782.

Semecarpus anacardium L.f., Suppl. pl. 182. 1782; Wight, Icon. pl. Ind. orient. t. 558. 1842; Bedd., Fl. sylv. S. India t. 166. 1871; Hook.f., Fl. Brit. India 2: 30. 1876.
var. anacardium.
Throughout the hotter parts of India.

var. **cuneifolia** (Roxb.) DC., Prodr. 2: 62. 1825; Hook.f., Fl. Brit. India 2: 31. 1876.
Semecarpus cuneifolia Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 86. 1824.
E NE & S India, Tropical Himalayas, Upper Gangetic Plains.

Semecarpus auriculata Bedd., Icon. pl. Ind. or. t. 187. 1874; Hook.f., Fl. Brit. India 2: 32. 1876.
S India.

Semecarpus heterophyllus Blume, Mus. bot. 1: 187. 1850; Hook.f., Fl. Brit. India 2: 35. 1876; Kurz, Forest fl. Burma 1: 312. 1877.
Andaman Islands.

Semecarpus kathalekanensis Dasappa & Swaminath in Indian Forester 126: 78, f. A-D. 2000.
SW Ghats (Karnataka).

Semecarpus kurzii Engl. in A. & C. DC., Monogr. phan. 4: 489. 1883; Brandis, Indian trees 209. 1906.
Andaman & Nicobar Islands.

Semecarpus prainii King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 511. 1897; Kanjilal et al., Fl. Assam 1: 334. 1936.
Andaman & Nicobar Islands, NE India.

Semecarpus subpanduriformis Wall. ex Hook.f., Fl. Brit. India 2: 35. 1876.
Andaman & Nicobar Islands; (cultivated in Indian Botanic Garden, Howrah).

Semecarpus travancorica Bedd., Fl. sylv. S. India t. 232. 1872; Hook.f., Fl. Brit. India 2: 31. 1876.
SW Ghats.

SPONDIAS L., Sp. pl. 371. 1753.

Spondias acuminata Roxb., Fl. ind. (Ed. Carey) 2: 453. 1832; Hook.f., Fl. Brit. India 2: 42. 1876; Kosterm. in J. Bombay Nat. Hist. Soc. 91: 467. 1994.
Peninsular India.

Spondias cytherea Sonn., Voy. Indes orient. 2: 242, t. 123. 1782; Adelb. in Blumea 6: 326. 1948; Airy Shaw & Forman in Kew Bull. 21: 10. 1967; P.S.N. Rao & Sreek. in J. Econ. Taxon. Bot. 14: 717. 1990.
Cultivated (Andaman & Nicobar Islands, Indian Botanic Garden, Howrah).

Spondias indica (Wight & Arn.) Airy Shaw & Forman in Kew Bull. 21: 16. 1967; Chithra in N.C. Nair & A.N. Henry (Eds.), Fl. Tamilnadu anal. 1: 89. 1983.
Solenocarpus indica Wight & Arn., Prodr. fl. Ind. orient. 171. 1834; Hook.f., Fl. Brit. India 2: 27. 1876.
Peninsular India.

Spondias pinnata (L.f.) Kurz, Prelim. rep. forest Pegu App. A. 44 & B. 42. 1875; Chithra in N.C. Nair & A.N. Henry (Eds.), Fl. Tamilnadu anal. 1: 89. 1983.
Mangifera pinnata L.f., Suppl. pl. 156. 1782.
Spondias mangifera Willd., Sp. pl. 2: 751. 1799 nom. illeg. incl. *Mangifera pinnata* L.f.; Hook.f., Fl. Brit. India 2: 42. 1876.
Throughout India, wild & cultivated.

SWINTONIA Griff. in Proc. Linn. Soc. London 1: 283. 1846.

Swintonia floribunda Griff. in Proc. Linn. Soc. London 1: 283. 1846; Ding Hou in Steenis, Fl. males. ser. I, 8: 445. 1978.
Swintonia helferi Hook.f., Fl. Brit. India 2: 26. 1876; C.E.C. Fisch. in Rec. Bot. Surv. India 12 (2): 88. 1938.
Andaman & Nicobar Islands, NE India.

ANCISTROCLADACEAE

ANCISTROCLADUS Wall., Numer. List 1052. 1829, nom. cons.

Ancistrocladus attenuatus Dyer in Hook.f., Fl. Brit. India 1: 300. 1874.
Andaman Islands.

Note. : Kothari & Moorthy in Fl. Raigad dist. have reported this from Matheran, Maharashtra based on vegetative specimens collected by G.S. Puri.

Ancistrocladus heyneanus Wall. ex J. Graham, Cat. pl. Bombay 28. 1839; Wight, Icon. pl. Ind. orient. tt. 1987 & 1986. 1853; Dyer in Hook.f., Fl. Brit. India 1: 299. 1874.
Peninsular India.

Ancistrocladus tectorius (Lour.) Merr. in Lingnan Sci. J. 6: 329. (1928) 1930; Steenis, Fl. males. ser. 1, 4:9. 1948.
Bembix tectoria Lour., Fl. cochinch. 282. 1790.
Ancistrocladus extensus Wall. ex Planch. in Ann. Sci. Nat. Bot. ser. 3, 13: 318. 1849; Dyer in Hook.f., Fl. Brit. India 1: 299. 1874; Brandis, Indian trees 73. 1906.
Ancistrocladus pinangianus Wall. ex Planch. in Ann. Sci. Nat. Bot. ser. 3, 13: 318. 1849; Dyer in Hook.f., Fl. Brit. India 1: 300. 1874.
Andaman Islands, Meghalaya.

Ancistrocladus wallichii Planch. in Ann. Sci. Nat. Bot. ser. 3, 13: 319. 1849; Brandis, Indian trees 73. 1906.
Andaman & Nicobar Islands, NE. India.

ANNONACEAE

ALPHONSEA Hook. f. & Thomson, Fl. ind. 152. 1855.

Alphonsea lutea (Roxb.) Hook. f. & Thomson, Fl. ind. 153. 1855 & in Hook.f., Fl. Brit. India 1: 89. 1872; P.J.A. Kessler in Bot. Jahrb. Syst. 118: 95. 1996.
Uvaria lutea Roxb., Pl. Coromandel 1: 32, t. 36. 1795 & Fl. ind. (Ed. Carey) 2: 666. 1832.
E. NE. & Peninsular India.

Alphonsea madraspatana Bedd., Fl. sylv. S. India t. 76. 1871; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 89. 1872.
E. & S. India.

Alphonsea sclerocarpa Thwaites, Enum. pl. zeyl. 11. 1858; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 89. 1872; Gamble, Fl. Madras 1: 16. 1967 (Repr.).
S. India.

Alphonsea ventricosa (Roxb.) Hook. f. & Thomson, Fl. ind. 152. 1855 & in Hook.f., Fl. Brit. India 1: 89. 1872.
Uvaria ventricosa Roxb., Fl. ind. (Ed. Carey) 2: 658. 1832.
Andaman Islands, E. & NE. India.

Alphonsea zeylanica Hook. f. & Thomson, Fl. ind. 153. 1853 & in Hook. f., Fl. Brit. India 1: 89. 1872.
Tamilnadu.
Note: Endemic to Sri Lanka ; reported from S. India by confusion with *Alphonsea lutea* ; P.J.A. Kessler, op.cit. 102.

ANAXAGOREA A. St.-Hil. in Bull. Sci. Soc. Philom. Paris 1825: 91. 1825.

Anaxagorea javanica Blume, Fl. Javae 1: 66, ff. 32 & 36 A. 1830; Hore in Bull. Bot. Surv. India 26: 21. (1984) 1985.
Great Nicobar Islands.

Anaxagorea luzonensis A. Gray in Wilkes, U.S. Expl. Exped., Phan. 15 (1): 27. 1854; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 68. 1872.
Andaman & Nicobar Islands.

ANNONA L., Sp. pl. 536. 1753.

Annona cherimola Mill., Gard. dict. ed. 8. no. 5. 1783; K.M. Matthew, Fl. Tamilnadu Carnatic 3 (1): 7. 1983.
Cultivated.

Annona glabra L., Sp. pl. 537. 1753; Kadavil & Antony in J. Swamy Bot. Club 5: 117, ff. 1-6. 1988; Sivar. & C.N. Sunil in Rheedea 3: 90, ff. 1-11. 1993.
Kerala (naturalised).

Annona muricata L., Sp. pl. 536. 1753; Bor, Man. Indian for. bot. 44. 1953.
Andaman & Nicobar Islands, NE & Peninsular India.

Annona reticulata L., Sp. pl. 537. 1753; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 78. 1872.
Throughout hotter parts of India, cultivated & naturalised.

Annona squamosa L., Sp. pl. 537. 1753; Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 78. 1872.
Throughout hotter parts of India, cultivated & naturalised.

ARTABOTRYS R. Br. in Bot. Reg. (Ed. Ker Gawl.) 5: 423. 1820.

Artabotrys burmanicus A. DC., Mém. Anon. 36. 1832; Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 55. 1872; King in Ann. Roy. Bot. Gard. (Calcutta) 4: 47. 1893.
Manipur.

Artabotrys caudatus Hook. f. & Thomson, Fl. ind. 122. 1855 & in Hook.f., Fl. Brit. India 1: 55. 1872.
NE India.

Artabotrys cubittii Chatterjee in J. Indian Bot. Soc. 19: 1. 1940.
NE India.

Artabotrys hexapetalus (L.f.) Bhandari in Baileya 12: 147. 1964.
Annona hexapetala L.f., Suppl. pl. 270. 1782.
Annona uncinata Lam., Encycl. 2: 127. 1786.
Artabotrys odoratissimus R. Br. in Bot. Reg. (Ed. Ker Gawl.) 5: t. 423. 1820; Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 54. 1872.
Uvaria odoratissima (R. Br.) Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 66. 1824.
Artabotrys uncinatus (Lam.) Merr. in Philipp. J. Sci. 7: 234. 1912.
Throughout India, cultivated & naturalised.

Artabotrys nicobarianus D. Das in Bull. Bot. Surv. India 11: 194. 1969.
Nicobar Islands.

Artabotrys speciosus Kurz ex Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 55. 1872.
Andaman Islands.

Artabotrys zeylanicus Hook.f. & Thomson, Fl. ind. 128. 1855 & in Hook.f., Fl. Brit. India 1: 54. 1872.
S India.

CANANGA (DC.) Hook.f. & Thomson, Fl. ind. 129. 1855, nom.cons.
UNONA subsect. CANANGA DC., Syst. nat. 1: 485. 1817.

Cananga odorata (Lam.) Hook. f. & Thomson, Fl. ind. 130. 1855 & in Hook.f., Fl. Brit. India 1: 56. 1872.
Uvaria odorata Lam., Encycl. 1: 595. 1785 & Tabl. encycl. t. 495, f. 1. 1794.
Canangium odoratum (Lam.) Baill. ex King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 61 (2): 41. 1892.
Throughout India, cultivated.

CYATHOCALYX Champ. ex Hook. f. & Thomson , Fl. ind. 126. 1855.

Cyathocalyx martabanicus Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 53. 1872*; Kanjilal et al., Fl. Assam 1: 40. 1934.
NE India.
Note: * Hook. f. & Thomson reported this from Myanmar (Burma).

Cyathocalyx zeylanicus Champ. ex Hook.f. & Thomson, Fl. ind. 127. 1855 & in Hook.f., Fl. Brit. India 1: 53. 1872*; Brandis, Indian trees 21. 1906.
SW Ghats.
Note: * Hook. f. & Thomson reported this from Sri Lanka (Ceylon).

CYATHOSTEMMA Griff., Not. pl. asiat. 4: 707. 1854.

Cyathostemma argenteum (Blume) J. Sinclair in Sarawak Mus. J. 5: 599. 1951 & in Gard. Bull. Straits Settlem. 14: 220. 1955.
Uvaria argentea Blume, Fl. Javae 1: 24, tt. 6 & 13 D. 1830.
Uvaria bracteata Roxb., Fl. ind. (Ed. Carey) 2: 660. 1832; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 49. 1872.
NE India.

Cyathostemma micranthum (A. DC.) J. Sinclair in Gard. Bull. Straits Settlem. 14: 225. 1955; D. Das in Bull. Bot. Surv. India 5: 40. 1963; Utter. in Blumea 45: 388. 2000.
Guatteria micrantha A. DC., Mém. Anon. 42. 1832.
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Andaman & Nicobar Islands.

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Andaman & Nicobar Islands.

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Desmos dunalii (Hook.f. & Thomson) Saff. in Bull. Torrey Bot. Club 39: 506. 1912.
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Throughout tropical India including Himalayas.

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Unona discolor var. *laevigata* Hook. f. & Thomson, Fl. ind. 1: 133. 1855 & in Hook.f., Fl. Brit. India 1: 59. 1872.
Uvaria undulata Roxb., Hort. bengal. 43. 1814 nom. nud.
Unona undulata Wall., Pl. asiat. rar. 3: 42, t. 265. 1832.
Cultivated(Indian Botanic Garden, Howrah).

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Unona discolor var. *latifolia* Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 59. 1872.
E NE & W India, E Himalaya.

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Tripura.

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Unona discolor var. *pubiflora* Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 59. 1872.
Throughout tropical India.

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Andaman & Nicobar Islands, NE India.

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Andaman & Nicobar Islands.

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Andaman & Nicobar Islands, E & NE India, E Himalaya.

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Peninsular India.

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& NE India, E Himalaya.

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Unona praecox Hook.f. & Thomson, Fl. ind. 136. 1855 & in Hook.f., Fl. Brit. India 1: 60. 1872.
E & NE India, E Himalaya.

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SW Ghats (Nilgiris).

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Uvaria bicolor Roxb., Fl. ind. (Ed. Carey) 2: 662. 1832.
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E & NE India, E Himalaya.

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E & NE India.

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Arunachal Pradesh.

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NE India.

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NE India.

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NE India.

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Assam.

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NE India.

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NE India.

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Andaman & Nicobar Islands, NE India.

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Andaman & Nicobar Islands.

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SW Chats.

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Andaman Islands.

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Unona macrantha Kurz, Rep. veg. Andaman Isl. App. B. 1. 1870 nom. nud.
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var. **macranthus**.
Andaman & Nicobar Islands, E India.

var. **brevipetalus** Debika Mitra née D. Das [in B.D. Sharma et al. (Eds.). Fl. India 1: 234. 1993 nom.nud.] ex Debika Mitra née D. Das in Bull. Bot. Surv. India 35: 117. (1993) 1997.
Andaman & Nicobar Islands; cultivated in Indian Botanic Garden, Howrah.

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Andaman & Nicobar Islands.

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Andaman & Nicobar Islands.

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SW Ghats (Kerala, Tamilnadu).

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Guatteria sesquipedalis Wall., Pl. asiat. rar. 3: t. 266. 1832.
E Himalayas, NE India.

Goniothalamus simonsii Hook. f. & Thomson, Fl. ind. 108. 1855 & in Hook.f., Fl. Brit. India 1: 74. 1872.
NE India.

Goniothalamus thwaitesii Hook. f. & Thomson, Fl. ind. 106. 1855 & in Hook.f., Fl. Brit. India 1: 72. 1872.
SW Ghats (Kerala, Tamilnadu).

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SW Ghats (Kerala, Tamilnadu).

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SW Ghats.

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W Ghats.

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SW Ghats.

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Andaman & Nicobar Islands.

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Andaman & Nicobar Islands.

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E Himalaya, NE India.

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Miliusa indica var. *tomentosa* Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 87. 1872.
SW Ghats.

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Miliusa roxburghiana Hook.f. & Thomson , Fl. ind. 150. 1855 & in Hook.f., Fl. Brit. India 1: 87. 1872.
Andaman Islands, E Himalaya, NE India.

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Andaman & Nicobar Islands.

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E & Peninsular India.

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Andaman & Nicobar Islands.

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Saccopetalum longiflorum Hook.f. & Thomson, Fl. ind. 151. 1855 & in Hook.f., Fl. Brit. India 1: 66. 1872.
E & S India, E Himalaya.

Miliusa macrocarpa Hook.f. & Thomson, Fl. ind. 150. 1855 & in Hook.f., Fl. Brit. India 1: 86. 1872.
E Himalaya, E & NE India.

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Andaman & Nicobar Islands.

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SW Ghats (Kerala, Tamilnadu).

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Andaman & Nicobar Islands.

Miliusa nilagirica Bedd., Icon. pl. Ind. or. t. 88. 1874; Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 87. 1872.
SW Ghats (Kerala, Tamilnadu).

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Uvaria tomentosa Roxb., Pl. Coromandel 1: 31, t. 35. 1795.
Saccopetalum tomentosum (Roxb.) Hook. f. & Thomson, Fl. ind. 152. 1855 & in Hook.f., Fl. Brit. India 1: 88. 1872.
E & Peninsular India, Upper Gangetic Plains.

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Uvaria velutina Dunal, Monogr. Anonac. 91. 1817.
var. **velutina.**
E NE & Peninsular India, Upper Gangetic Plains, W Himalaya.

var. **deviyarina** S.M. Rajendran, S.C. Agarwal & H.N. Verma in Indian J. Forest. 26: 220, f. 1. 2003.
SW Ghats (Tamilnadu).

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SW Ghats.

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Andaman & Nicobar Islands.

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SW Ghats.

Mitrephora harai H. Ohashi in H. Hara, Fl. E. Himal. 97. 1966 ('harai').
E Himalaya.

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SW Ghats (Kerala, Tamilnadu).

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NE India.

OROPHEA Blume, Bijdr. 18. 1825.

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SW Ghats (Kerala, Tamilnadu); Andaman & Nicobar Islands (?)

Orophea hexandra Blume, Bijdr. 18. 1825; Brandis, Indian trees 18. 1906; Kebler in Blumea 33: 32. 1988.
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Andaman & Nicobar Islands.

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Andaman & Nicobar Islands.

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Kerala.
Note : Debika Mitra née D. Das in B.D. Sharma et al. (Eds.), Fl. India 1: 229. 1993 treats this as part of *Orophea zeylanica* Hook.f. & Thomson.

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Andaman Islands.

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Andaman & Nicobar Islands, Meghalaya.

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Andaman & Nicobar Islands.

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Kerala.

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SW Ghats (Tamilnadu).

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Mezzettiopsis torulosa (Hutch.) Goel in J. Econ. Taxon. Bot. 14: 143, f. A-H. 1990.
Andaman & Nicobar Islands.

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SW Ghats.

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W Ghats.

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SW Ghats (Kerala).

POLYALTHIA Blume, Fl. Javae 68. 1830.

Polyalthia cauliflora Hook. f. & Thomson var. **desmantha** (Hook. f. & Thomson) J. Sinclair in Gard. Bull. Straits Settlem. 15: 295. 1955; Sanjappa & D.Chatterjee in J. Econ. Taxon. Bot. 7: 457. 1985.
Unona desmantha Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 61. 1872.
Great Nicobar Islands.

Polyalthia cerasoides (Roxb.) Bedd., Fl. sylv. S. India t. 1. 1869; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 63. 1872.
Uvaria cerasoides Roxb., Pl. Coromandel 1: 30, t. 33. 1795 & Fl. ind. (Ed. Carey) 2: 666. 1832.
E NE & Peninsular India.

Polyalthia coffeoides (Hook. f. & Thomson) Thwaites, Enum. pl. zeyl. 398. 1864; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 62. 1872.
Guatteria coffeoides Hook. f. & Thomson, Fl. ind. 141. 1855.
SW Ghats.

Polyalthia crassa R.Parker in Indian Forester 55: 375. 1929.
Andaman & Nicobar Islands.

Polyalthia fragrans (Dalzell) Bedd., Fl. sylv. S. India t. 74. 1871 & Icon. pl. Ind. or. t. 54. 1874; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 63. 1872.
Guatteria fragrans Dalzell in Hooker's J. Bot. Kew Gard. Misc. 3: 206. 1851.
W Ghats.

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Uvaria glauca Hassk. in Flora 25 (Beibl. 2) : 31. 1842.
Guatteria glauca (Hassk.) Miq., Fl. Ned. Ind. 1: 49. 1855.
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Andaman & Nicobar Islands.

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Guatteria jenkinsii Hook. f. & Thomson, Fl. ind. 141. 1855.
Polyalthia andamanica Kurz, Rep. veg. Andaman Isl. 29. 1870.
Andaman & Nicobar Islands, NE India.

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S India.

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Guatteria lateriflora Blume, Bijdr. 20. 1825.
Andaman & Nicobar Islands.

Polyalthia longifolia (Sonn.) Thwaites, Enum. pl. zeyl. 398. 1864; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 62. 1872.
Uvaria longifolia Sonn., Voy. Indes orient. 2: 233, pl. 131. 1782.
Cultivated.

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Meghalaya.

Polyalthia obliqua Hook. f. & Thomson, Fl. ind. 138. 1855 & in Hook.f., Fl. Brit. India 1: 67. 1872; Kanjilal et al., Fl. Assam 1: 1. 1936.
NE India.

Polyalthia rufescens Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 66. 1872.
Andaman & Nicobar Islands, Kerala, Tamilnadu.

Polyalthia shendurunii Basha & Sasidh. in Rheedea 4: 21, ff. A-H. 1994.
Kerala.

Polyalthia simiarum (Hook. f. & Thomson) Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 63. 1872.
Guatteria simiarum Hook. f. & Thomson, Fl. ind. 142. 1855.
Andaman & Nicobar Islands, E & NE India, E Himalaya.

Polyalthia suberosa (Roxb.) Thwaites, Enum. pl. zeyl. 398. 1864; Bedd., Icon. pl. Ind. or. t. 56. 1874; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 65. 1872.
Uvaria suberosa Roxb., Pl. Coromandel 1: t. 34. 1795.
C E NE & S India, Upper Gangetic Plains.

Polyalthia sumatrana (Miq.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 45: 53. 1874 emend. King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 61: 53. 1892; D. Das in Bull. Bot. Surv. India 5: 43. 1963.
Guatteria sumatrana Miq., Fl. Ned. Ind., Eerste bijv. pt. 3: 380. 1861.
Andaman & Nicobar Islands.

Polyalthia tirunelveliensis M.B. Viswan. & Manik. in Kew Bull. 56: 217,f. 1. 2001.
SW Ghats (Tamilnadu: Tirunelveli).

POPOWIA Endl., Gen. pl. 831. 1839.

Popowia beddomeana Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 68. 1872.
Popowia ramosissima Bedd., Icon. pl. Ind. or. t. 75. 1874 non Hook. f. & Thomson, 1855.
SW Ghats (Kerala, Tamilnadu).

Popowia helferi Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 69. 1872.
Andaman & Nicobar Islands.

Popowia parvifolia Kurz in J. Bot. 13: 324. 1875; D. Das in Bull. Bot. Surv. India 5: 43. 1963.
Andaman & Nicobar Islands.

PSEUDUVARIA Miq., Fl. Ned. Ind. 1 (2): 32. (1858) 1859.

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Mitrephora prainii King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 61: 88. 1892 & in Ann. Roy. Bot. Gard. (Calcutta) 4: 115. 1893.
Andaman & Nicobar Islands.

Pseuduvaria rugosa (Blume) Merr. in Philipp. J. Sci. 10: 255. 1915; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 110. 1986.
Uvaria rugosa Blume, Bijdr. 12. 1825.
Andaman & Nicobar Islands.

SAGERAEA Dalzell in Hooker's J. Bot. Kew Gard. Misc. 3: 207. 1851.

Sageraea dalzellii Bedd., Icon. pl. Ind. or. t. 42. 1874; Gamble, Fl. Madras 1: 8. 1967 (Repr.).
Bocagea dalzellii Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 92. 1872, p.p.
SW Ghats (Kerala, Tamilnadu).

Sageraea elliptica (A. DC.) Hook.f. & Thomson, Fl. ind. 93. 1855; C.E. Parkinson, Forest fl. Andaman Isl. 77. 1923.
Uvaria elliptica A. DC. in Mem. Soc. Phys. Geneve 5: 23. 1832.
Bocagea elliptica (A.DC.) Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 92. 1872.
Andaman Islands.

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Guatteria laurifolia J. Graham, Cat. pl. Bombay 4. 1839 non *Guatteria laurifolia* (Sw.) Dunal. 1817.
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W Ghats.

Sageraea listeri King in Ann. Roy. Bot. Gard. (Calcutta) 4: 7, t. 35A. 1893; Heusden in Nord. J. Bot. 17: 47. 1997.
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Andaman Islands.

Sageraea thwaitesii Hook.f. & Thomson, Fl. Ind. 93. 1855; Heusden in Nord. J. Bot. 17: 48. 1997.
Bocagea thwaitesii (Hook.f. & Thomson) Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 92. 1872.
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S India.

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Andaman & Nicobar Islands, NE India.

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Polyalthia macrophylla Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 66. 1872 excl. syn. *Guatteria macrophylla* Blume, 1825.
Polyalthia dubia Kurz, Forest fl. Burma 1: 38. 1877.
Popowia kurzii King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 61: 96. 1892.
Andaman & Nicobar Islands, Assam.

Trivalvaria kanjilalii D. Das in Bull. Bot. Surv. India 10: 263. 1968.
NE India.

UVARIA L., Sp. pl. 536. 1753.

Uvaria andamanica King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 61: 21. 1892 & in Ann. Roy. Bot. Gard. (Calcutta) 4: 29, t. 25. 1893; C.E. Parkinson, Forest fl. Andaman Isl. 79. 1923.
Andaman & Nicobar Islands.

Uvaria cordata (Dunal) Alston in Trimen's Handb. fl. Ceylon (Suppl.) 6: 4. 1931.
Guatteria cordata Dunal, Monogr. Anonac. 129, t. 30. 1817.
Uvaria macrophylla Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 663. 1824; Hook. f. & Thomson in Hook.f., Fl. Brit. India 1: 49. 1872.
Andaman & Nicobar Islands, E & NE India.

Uvaria eucincta Bedd. ex Dunn in Bull. Misc. Inform. 1914: 182. 1914 (Gamble, Fl. Madras 1: 9. 1967, Repr.).
Karnataka, Orissa.

Uvaria hamiltonii Hook.f. & Thomson, Fl. ind. 96. 1855 & in Hook.f., Fl. Brit. India 1: 48. 1872.
Andaman & Nicobar Islands, E N NE & S India, E Himalaya.

Uvaria hookeri King in Ann. Roy. Bot. Gard. (Calcutta) 4: 28, t. 22. 1893; T. Cooke, Fl. Bombay 1: 10. 1958 (Repr.).
Uvaria narum var. *macrophylla* Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 50. 1872.
E to Peninsular India.

Uvaria kurzii (King) P.T. Li in Acta Phytotax. Sin. 14: 106. 1976.
Uvaria hamiltonii var. *kurzii* King in Ann. Roy. Bot. Gard. (Calcutta) 4: 29. 1893; Kanjilal et al., Fl. Assam 1: 44. 1934.
Andaman & Nicobar Islands, NE India.

Uvaria lurida Hook.f. & Thomson, Fl. ind. 101. 1855 & in Hook.f., Fl. Brit. India 1: 51. 1872.
var. lurida.
Andaman & Nicobar Islands, E & NE India, E Himalaya.

var. **sikkimensis** King in Ann. Roy. Bot. Gard. (Calcutta) 4: 29. 1893.
E Himalaya.

Uvaria macropoda Hook.f. & Thomson, Fl. Ind. 101. 1855 & in Hook.f., Fl. Brit. India 1: 50. 1872; Gamble, Fl. Madras 1: 9. 1967 (Repr.).
Tamilnadu, Orissa (?).

Uvaria narum (Dunal) Blume, Fl. Javae 5. 1827; Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 50. 1872; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.) : 51. 1988.
Unona narum Dunal, Monogr. Anonac. 99. 1817.
var. narum.
Peninsular India.

var. **eunarum** Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 50. 1872.
Peninsular India.

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Nicobar Islands.

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Andaman & Nicobar Islands.

Uvaria sumatrana (Miq.) Hook.f. & Thomson in Hook.f., Fl. Brit. India 1: 51. 1872.
Anaxagorea sumatrana Miq., Fl. Ned. Ind., Eerste bijv. pt. 3: 382. 1860.
Andaman Islands.

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S India.

XYLOPIA L., Syst. nat. ed. 10. 2: 1241, 1250, 1378. 1759, nom.cons.

Xylopia parvifolia (Wight) Hook.f. & Thomson, Fl. ind. 125. 1855 & in Hook.f., Fl. Brit. India 1: 84. 1872*; Gamble, Fl. Madras 1: 15. 1967 (Repr.).
Patonia parvifolia Wight, Ill. Ind. Bot. 1: 19. 1838.
Kerala.
Note: * Hook.f. & Thomson reported this from Sri Lanka (Ceylon).

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ACRONEMA Falc. ex Edgew. in Trans. Linn. Soc. London 20: 51. 1846.

Acronema bella (C.B. Clarke) P.K. Mukh. in Cauwet & Carb., Les Ombelliferes Contrib. Pluridisc. Syst. (2e Sympos. Int.) 51. (1977) 1978 & in Bull. Bot. Surv. India 24: 42. 1983; Farille, Cauwet & S.B. Malla in Candollea 40: 557. 1985.
Pimpinella bella C.B. Clarke in Hook.f., Fl. Brit. India 2: 686. 1879.
C to E Himalaya.

Acronema graminifolium (W.W. Sm. & Cave) S.L. Liou & R.H. Shan in Acta Phytotax. Sin. 18: 197. 1980.
Pimpinella hookeri var. *graminifolia* W.W. Sm. & Cave in Rec. Bot. Surv. India 4: 200. 1911.
Acronema hookeri var. *graminifolium* (W.W. Sm. & Cave) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 323. 1927.
E Himalaya.

Acronema handelii H. Wolff in Engl., Pflanzenr. IV. 228. (Heft 90): 322. 1927; Cannon in H. Hara & L. H. J. Williams, Enum. fl. pl. Nepal 2: 184. 1979.
Pimpinella handelii (H. Wolff) M. Hiroe, Umbell. World 831. 1979.
C to E Himalaya.

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Pimpinella hookeri C.B. Clarke in Hook.f., Fl. Brit. India 2: 686. 1879.
Carum hookeri (C.B. Clarke) Franch. in Bull. Soc. Philom. Paris 6: 122. 1894.
Himalayas, NE India.

Acronema jubrianum Babu in Brittonia 25: 159. 1973; Farille et al. in Candollea 40: 557. 1985.
C Himalaya; ? E Himalaya (Farille et al., op.cit.).

Acronema muscicolum (Hand.-Mazz.) Hand.-Mazz., Symb. sin. 7: 715. 1933; P.K. Mukh. & Constance, Umbell. India 122. 1993.
Pimpinella muscicola Hand.-Mazz. in Akad. Wiss. Wien, Math. – Naturwiss. Kl., Anz. 62: 226. 1925.
Himalayas.

Acronema nervosum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 315. 1929.
E Himalaya.

Acronema paniculatum (Franch.) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft. 90): 323. 1927; P.K. Mukh. & Constance, Umbell. India 125. 1993.
Carum paniculatum Franch. in Bull. Soc. Philom. Paris 6: 122. 1894.
C to E Himalaya.

Acronema pseudotenera P.K. Mukh. in Cauwet & Carb., Les Ombelliferes Contrib. Pluridisc. Syst. (2e Sympos. Int.) : 52. (1977) 1978.
E Himalaya.

Acronema sichuanense S.L. Liou & R. H. Shan in Acta Phytotax. Sin. 18: 199. 1980; P.K. Mukh. & Constance, Umbell. India 126. 1993.
E Himalaya.

Acronema tenerum (DC.) Edgew. in Trans. Linn. Soc. London 20: 51. 1846.
Sison tenerum Wall., Numer. List 593. 1829 nom. nud.
Heloscíadium ? tenerum DC., Prodr. 4: 105. 1830.
Pimpinella tenera (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 686. 1879.
Pimpinella tenera var. *dissecta* C.B. Clarke in Hook.f., Fl. Brit. India 2: 686. 1879.
Carum tenerum (DC.) Franch. in Bull. Soc. Philom . Paris 6: 122. 1894.
Acronema tenerum var. *dissectum* (C.B.Clarke) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 321. 1927.
Himalayas.

AEGOPODIUM L., Sp. pl. 265. 1753.

Aegopodium alpestre Ledeb., Fl. altaic. 1: 354. 1829.
Carum alpestre (Ledeb.) Koso-Pol. in Bull. Soc. Imp. Naturalistes Moscou n.s., 29: 199. 1916.
Pimpinella kashmirica R.R. Stewart & Dunn in Bull. Misc. Inform. 1924: 384. 1924.
NW Himalaya.

Aegopodium henryi Diels in Bot. Jahrb. Syst. 29: 497. 1900; Raizada & Shahi in J. Indian Bot. Soc. 30: 79. 1951.
NE India.

AMMI L., Sp. pl. 243. 1753.

Ammi majus L., Sp. pl. 243. 1753; N.C. Nair, Fl. Punjab plains 125. 1978.
Carum majus (L.) Koso-Pol. in Bull. Soc. Imp. Naturalistes Moscou n.s., 29: 198. 1916.
Weed in cultivated fields.

Ammi visnaga (L.) Lam., Fl. franc. 3: 462. 1778; Nasir in Nasir & Ali (Eds.), Fl. W. Pakistan 20: 31. 1972.
Daucus visnaga L., Sp. pl. 242. 1753.
NW Himalaya (introduced).

ANETHUM L., Sp. pl. 263. 1753.

Anethum graveolens L., Sp. pl. 263. 1753; Santapau, Fl. Purandhar 59. 1958.
Peucedanum graveolens (L.) Hiern in Oliv., Fl. trop. Afr. 3: 19. 1877 non S. Watson, 1871; C.B. Clarke in Hook.f., Fl. Brit. India 2: 709. 1879.

Anethum sowa Roxb. apud Fleming in Asiat. Res. 11: 156. 1810.
Peucedanum sowa (Roxb.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 46: 116. 1877.
Heracleum graveolens (L.) S.M. Almeida in J. Econ. Taxon. Bot. addl. ser. 8(1) : 197. 1990.
Throughout tropical & subtropical India, often cultivated.

ANGELICA L., Sp. pl. 250. 1753.

Angelica cyclocarpa (C. Norman) Cannon in H. Hara & L. H. J. Williams, Enum. fl. pl. Nepal 2: 184. 1979.
Archangelica cyclocarpa C. Norman in J. Bot. 67: 246. 1929.
C Himalaya.

Angelica glauca Edgew. in Trans. Linn. Soc. London 20: 53. 1851; C.B. Clarke in Hook.f., Fl. Brit. India 2: 706. 1879.
W Himalaya.

Angelica harae Pimenov in Feddes Repert. 98: 379, f. 2. 1987.
C Himalaya.

Angelica indica Pimenov & Kljuykov in Willdenowia 33: 122, f. 1. 2003.
W Himalaya.

Angelica nubigena (C.B. Clarke) P.K. Mukh. in Bull. Bot. Surv. India 24: 42. (1982) 1983.
Heracleum nubigenum C.B. Clarke in Hook.f., Fl. Brit. India 2: 713. 1879.
E Himalaya.

Angelica oreadum (Diels) M. Hiroe, Umbell. World 1430. 1979; Pimenov & Kljuykov in Feddes Repert. 113: 337. 2002.
Archangelica oreadum Diels in Notizbl. Bot. Gart. Berlin-Dahlem 14: 353. 1939.
Archangelica officinalis Hoffm. var. *himalaica* C.B.Clarke in Hook.f., Fl. Brit. India 2: 707. 1879.
Angelica archangelica L. var. *himalaica* (C.B. Clarke) S. Krishna & Badhw. in J. Sci. Industr. Res., C. Biol. Sci. 11: 251. 1952.
Angelica archangelica forma *himalaica* (C.B. Clarke) Weinert in Feddes Repert. 84: 310. 1973.
Angelica archangelica ssp. *himalaica* (C.B.Clarke) G. Singh & Oza in Bull. Bot. Surv. India 16: 168 (1974) 1977.
Angelica roylei sensu P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 44. 1991 & Umbell. India 213. 1993 p.p.
W Himalaya.

Excluded species : Razi in Rec. Bot. Surv. India 18:4. 1959 included *Angelica sinuata* H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 301. 1930 from 'India' but it is from China.

ANTHRISCUS Pers., Syn. pl. 1: 320. 1805, nom. cons.

Anthriscus caucalis M. Bieb., Fl. taur.-caucas. 1: 230. 1808; P.K. Mukh. & Constance, Umbell. India 45. 1993.
Caucalis scandicina Weber ex F.H. Wigg., Prim. fl. holsat. 23. 1780.
Anthriscus scandicina (Weber ex F.H. Wigg.) Mansf. in Repert. Spec. Nov. Regni Veg. 46: 309. 1939; Babu in J. Bombay Nat. Hist. Soc. 65: 807. (1968) 1969.
Uttarakhand.

Anthriscus nemorosus (M. Bieb.) Spreng., Pl. umbell. prodr. 27. 1813; C.B. Clarke in Hook.f., Fl. Brit. India 2: 692. 1879.
Chaerophyllum nemorosum M. Bieb., Fl. taur.-caucas. 1: 232. 1808.
Anthriscus sylvestris ssp. *nemorosa* (M. Bieb.) Koso-Pol. in Trudy Glavn. Bot. Sada 36: 103. 1920.

Anthriscus nemorosus var. *glabriusculus* Nasir in Biologia (Lahore) 3: 61. 1957; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 115. 1983.
W Himalaya.

Anthriscus sylvestris (L.) Hoffm., Gen. pl. umbell. 1, 40. 1814; H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 1: 311. 1984.
Chaerophyllum sylvestris L., Sp. pl. 258. 1753.
C & W Himalaya.

APIUM L., Sp. pl. 264. 1753.

Apium graveolens L., Sp. pl. 264. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 2: 679. 1879.
NW Himalaya; cultivated in N NE & S India.

ARCUATOPTERUS M.L. Sheh & R.H. Shan in Bull. Bot. Res., Harbin 6(4): 11. 1986.

Arcuatopterus sikkimensis (C.B. Clarke) Pimenov & Ostr. in Feddes Repert. 111: 557. 2000; M.L. Sheh & M.F. Watson in C.Y. Wu et al., (Eds.) Fl. China 14: 173. 2005 *online*.
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Angelica sikkimense (C.B.Clarke) P.K. Mukh. in Bull. Bot. Surv. India 24: 43. 1982.
E Himalaya.

AULACOSPERMUM Ledeb., Fl. altaic. 4: 334. 1833.

Aulacospermum hookeri (C.B.Clarke) Farille & S.B. Malla in Candollea 40: 525. 1985.
Pleurospermum hookeri C.B. Clarke in Hook.f., Fl. Brit. India 2: 705. 1879.
var. **hookeri.**
Himalayas.

var. **thomsoni** (C.B. Clarke) Karthik. & Moorthy comb.nov.
Pleurospermum hookeri var. *thomsoni* C.B. Clarke in Hook.f., Fl. Brit. India 2: 705. 1879.
W Himalaya.

Aulacospermum stylosum (C.B. Clarke) Rech. f. & Riedl in Köie & Rech. f. in Biol. Skr. 13 (4) : 28. 1963; Farille et al. in Candollea 40: 525. 1985.
Pleurospermum stylosum C.B. Clarke in Hook.f., Fl. Brit. India 2: 704. 1879; Z.H. Pan & M.F. Watson in C.Y. Wu et al. (Eds.) Fl. China 14: 44. 2005.
W Himalaya.

BERULA Besser ex W.D.J. Koch in Mert. & W.D.J. Koch in Röhl., Deutschl. Fl. ed. 3. 2: 25, 433. 1826.

Berula erecta (Huds.) Coville in Contr. U.S. Natl. Herb. 4: 115. 1893; P.K. Mukh. & Constance, Umbell. India 77. 1993.
Sium erectum Huds., Fl. angl. 1: 103. 1762.
W Himalaya.

BUNIUM L., Sp. pl. 243. 1753.

Bunium nothum (C.B. Clarke) P.K. Mukh. in Bull. Bot. Surv. India 24: 43. (1982) 1983.
Carum nothum C.B. Clarke in Hook.f., Fl. Brit. India 2: 681. 1879.
Bunium nilghirense H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 334. 1930.
W Ghats (Nilgiris).

Bunium persicum (Boiss.) B. Fedtsch., Rast. Turkestan 612. 1915; P.K. Mukh. & Constance, Umbell. India 70. 1993.
Carum persicum Boiss. in Ann. Sci. Nat. Bot. ser. 3, 1: 138. 1844.
Carum bulbocastanum sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 681. 1879 non W.D.J. Koch, 1824.
Bunium macura sensu V. Singh, Fl. Banswara 117. 1983.
NW Himalaya.

BUPLEURUM L., Sp. pl. 236. 1753.

Bupleurum aitchisonii (Boiss.) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft. 43): 142. 1910; M.A. Rau, High. alt. fl. pl. W. Himal. 113. 1975.
Bupleurum olympicum Boiss. var. *aitchisonii* Boiss., Fl. orient. suppl. 252. 1888.
Bupleurum aitchisonii var. *caudatum* H. Wolff in Engl., Pflanzenr. IV. 228 (Heft. 43): 143. 1910.
W Himalaya.

Bupleurum andhricum M.P. Nayar & R.N. Banerjee in Bull. Bot. Surv. India 12: 255. 1970.
Andhra Pradesh, Orissa.

Bupleurum atruviolaceum (O.E. Schulz) Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 54. 1972; B.M. Sharma & Jamwal in J. Econ. Taxon. Bot. add. ser. IV: 232. 1988.
Bupleurum aitchisonii forma *atroviolacea* O.E. Schulz in Notizbl. Bot. Gart. Berlin-Dahlem 11: 876. 1933.
W Himalaya.

Bupleurum canaliculatum Diels in Notizbl. Bot. Gart. Berlin-Dahlem 14: 352. 1939.
NW Himalaya.

Bupleurum candollei Wall. ex DC., Prodr. 4: 131. 1830; C.B. Clarke in Hook. f., Fl. Brit. India 2: 674. 1879 ('candollii').
Himalayas.

Bupleurum clarkeanum (H. Wolff) Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 50. 1972.
Bupleurum longicaule var. *clarkeanum* H. Wolff in Engl., Pflanzenr. IV. 228 (Heft. 43): 123. 1910; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 115. 1983.
Bupleurum diversifolium sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 675. 1879 non Rochel, 1828.
W Himalaya.

Bupleurum constancei Nasir in Univ. Calif. Publ. Bot. 27: 428. 1955.
NW Himalaya.

Bupleurum dalhousieanum (C.B.Clarke) Koso-Pol. in Trudy Imp. Bot. Sada Petra Velikago 30: 165. 1915 ('dalhousianum').
Bupleurum longicaule var. *dalhousieanum* C.B. Clarke in Hook.f., Fl. Brit. India 2: 677. 1879.
C to W Himalaya.

Bupleurum distichophyllum Wight & Arn., Prodr. fl. Ind. orient. 370. 1834; C.B. Clarke in Hook.f., Fl. Brit. India 2: 677. 1879.
SW Ghats (Kerala, Tamilnadu).

Bupleurum falcatum L., Sp. pl. 237. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 2: 676. 1879.
var. **falcatum.**
Himalayas, N NE & S India.

var. **biharensis** Haines, Bot. Bihar Orissa 406. 1925 (2: 425. 1961, Repr.).
Bihar.
Note: May be ***B. andhricum*** M.P. Nayar & R.N. Banerjee cf. P.K. Mukh. & Constance, Umbell. India 65. 1993.

var. **scorzoneraefolium** (Willd.) Ledeb., Fl. ross. 2: 267. 1844; M. Hiroe, Umbell. World 932. 1979.
Bupleurum scorzoneraefolium Willd., Enum. pl. 300. 1809.
W Himalaya.

Bupleurum gilesii H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 179. 1929.
W Himalaya.

Bupleurum gracillimum Klotzsch in Klotzsch & Garcke, Bot. Ergebn. Reise Waldemar 148. 1862.
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Himalayas.

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var. **hamiltonii.**
Himalayas, N India.

var. **attenuata** (Nasir) P.K. Mukh. in Indian Forester 95: 567. 1969.
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NW Himalaya.

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W Himalaya.

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W Himalaya.

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Meghalaya.

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NE India.

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C to W Himalaya.

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Bupleurum longicaule var. *stricta* C.B. Clarke in Hook.f., Fl. Brit. India 2: 677. 1879.
var. **longicaule.**
Himalayas.

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NW Himalaya.

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W Himalaya.

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var. **marginatum**.
Himalayas, NE India.

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W Himalaya.

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NW Himalaya.

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W Ghats (Nilgiris).

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var. **ramosissimum**.
S India.

var. **wightii** Bennet in J. Econ. Taxon. Bot. 5: 972. 1984.
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Bupleurum mucronatum Wight & Arn., Prodr. fl. Ind. orient. 370. 1834 non Brouss. ex Spreng., 1820; C.B. Clarke in Hook.f., Fl. Brit. India 2: 676. 1879.
E to S India.

Bupleurum rotundifolium L., Sp. pl. 236. 1753; Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 43. 1972.
NW Himalaya.

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Bupleurum longicaule var. *himalensis* (Klotzsch) C.B. Clarke in Hook.f., Fl. Brit. India 2: 677. 1879.
C to W Himalaya.

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E Himalaya.

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NW Himalaya.

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NW Himalaya.

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NW Himalaya.

Bupleurum thomsoni C.B. Clarke in Hook.f., Fl. Brit. India 2: 675. 1879.
NW Himalaya.

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Bupleurum mucronatum var. *virgatum* (Wight & Arn.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 676. 1879.
C to S India.

CARUM L., Sp. pl. 263. 1753.

Carum carvi L., Sp. pl. 263. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 2: 680. 1879.
forma **carvi**.
Himalayas, Upper Gangetic Plains; cultivated & adventive.

forma **glaciale** (Lindl.) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 148. 1927; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 116. 1983.
Alpine W Himalaya.

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C Himalaya.

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Orissa.
Note : See note on nomenclature by P.K. Mukh. & Constance, Umbell. India 119. 1993: "Haines (op.cit.) states: 'The fruit is unfortunately not known, so no Latin description of the species has yet been published'

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Throughout India.

CHAEROPHYLLUM L., Sp. pl. 258. 1753.

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NW Himalaya.

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E Himalaya, NE India.

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var. **reflexum.**
Himalayas.

var. **acuminatum** (Lindl.) Hedge & Lamond in Notes Roy. Bot. Gard. Edinburgh 38: 254. 1980.
Chaerophyllum acuminatum Lindl. in Royle, Ill. bot. Himal. Mts. 232., 1835; C.B. Clarke in Hook.f., Fl. Brit. India 2: 691. 1879; P.K. Mukh. & Constance, Umbell. India 41. 1993.
Chaerophyllum reflexum var. *tuberosum* Hedge & Lamond in Notes Roy. Bot. Gard. Edinburgh 38: 255. 1980.
W Himalaya.

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Chaerophyllum cachemiricum var. *dissectum* C.B. Clarke in Hook.f., Fl. Brit. India 2: 692. 1879.
W Himalaya.

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Himalayas, NE India.

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Chamaesium mallaeanum Farille & S.B. Malla in Candollea 40: 536. 1985.
C Himalaya.

Chamaesium novem-jugum (C.B.Clarke) C.Norman in J. Bot. 76: 231. 1938; Raizada in Indian Forester 84: 477. 1958.
Trachydium novem-jugum C.B. Clarke in Hook.f., Fl. Brit. India 2: 672. 1879.
E Himalaya.

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C Himalaya.

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E Himalaya.

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NW Himalaya.

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Seseli daucifolium C.B. Clarke in Hook.f., Fl. Brit. India 2: 693. 1879.
N & NE India.

CONIUM L., Sp. pl. 243. 1753.

Conium maculatum L., Sp. pl. 243. 1753; P.K. Mukh. & Constance, Umbell. India 83. 1993.
NW Himalaya.

CORIANDRUM L., Sp. pl. 256. 1753.

Coriandrum sativum L., Sp. pl. 256. 1753; Wight, Icon. pl. Ind. orient. t. 516. 1842; C.B. Clarke in Hook.f., Fl. Brit. India 2: 717. 1879.
Cultivated.

CORTIA DC., Prodr. 4: 186. 1830.

Cortia depressa (D. Don) C. Norman in J. Bot. 75: 96. 1937; Farille et al. in Candollea 40: 543. 1985; P.K. Mukh. & Constance, Umbell. India 201. 1993.
Athamanta depressa D. Don, Prodr. fl. nepal. 184. 1825.
Cortia lindlei DC., Prodr. 4: 187. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 701. 1879.
Cortia nepalensis C. Norman in J. Bot. 67: 245. 1929.
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Himalayas.

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C Himalaya.

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C & E Himalaya, NE India.

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Cortiella cauvetmarciana Farille & S.B. Malla in Candollea 40: 543. 1985.
C to E Himalaya.

CUMINUM L., Sp. pl. 254. 1753.

Cuminum cyminum L., Sp. pl. 254. 1753; Wight, Ill. Ind. Bot. t. 117. 1850, p.p.; C.B. Clarke in Hook.f., Fl. Brit. India 2: 718. 1879.
Throughout India, cultivated.

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Pimpinella leptophylla Pers., Syn. pl. 1: 324. 1805.
Apium leptophyllum (Pers.) F. Muell. ex Benth., Fl. austral. 3: 372. 1866.
Apium tenuifolium Thell. in Hegi, Ill. Fl. Mitt.-Eur. 5(2): 1140. 1926.
Himalayas, N India, Upper Gangetic Plains.

DAUCUS L., Sp. pl. 242. 1753.

Daucus carota L., Sp. pl. 242. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 2: 718. 1879.
Daucus carota var. *sativa* DC., Prodr. 4: 211. 1830; G.L. Shah , Fl. Gujarat 342. 1978.
Cultivated.

ELAEOSTICTA Fenzl in Flora 26: 458. 1843.

Elaeosticta aitchisonii (H. Wolff) Kljuykov, Pimenov & V.N. Tikhom. in Bjull. Moskovsk. Obšč. Isp. Prir., Otd. Biol. 81 (6): 93. 1976.
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Punjab, W Himalaya.

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Petrosciadium caespitosum Edgew. in Trans. Linn. Soc. London 1: 252. 1846.
Pimpinella caespitosa (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 689. 1879.
W Himalaya.

Eriocycla nuda Lindl. in Royle, Ill. bot. Himal. Mts. 232, t. 51. 1835.
Pituranthos nuda (Lindl.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 680. 1879.
W Himalaya.

Eriocycla stewartii (Dunn) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 107. 1927.
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Pimpinella stewartii (Dunn) Nasir in Nasir & Ali (Eds.), Fl. W. Pakistan 20: 66. 1972.
Trachyspermum stewartii (Dunn) Hedge, Lamond & Rech. f. in Rech. f., Fl. iran. 162: 338. 1987.
NW Himalaya.

Eriocycla thomsoni (C.B. Clarke) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 106. 1927.
Pituranthos thomsoni C.B. Clarke in Hook.f., Fl. Brit. India 2: 680. 1879.
W Himalaya.

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Eryngium billardieri F. Delaroche ssp. **nigromontanum** (Boiss. & Buhse) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 61): 150. 1913.
Eryngium nigromontanum Boiss. & Buhse in Nouv. Mém. Soc. Imp. Naturalistes Moscou 12: 95. 1860.
Eryngium billardieri sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 670. 1879 non F.Delaroche, 1808.
NW Himalaya.

Eryngium caeruleum M. Bieb., Tabl. prov. Mer casp. 112. 1798; C.B. Clarke in Hook.f., Fl. Brit. India 2: 669. 1879, p.p.
NW Himalaya.

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C E N NE & S India.

Eryngium planum L., Sp. pl. 232. 1753; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 517. 1972.
Eryngium caeruleum sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 669. 1879 p.p. non M. Bieb., 1798.
NW Himalaya.

FERULA L., Sp. pl. 246. 1753.

Ferula jaeschkeana Vatke, Adnot. crit. pl. sp. 2. 1876; C.B. Clarke in Hook.f., Fl. Brit. India 2: 708. 1879.
NW Himalaya.

Ferula kokanica Regel & Schmalh. in Trudy Imp. S.-Peterburgsk. Bot. Sada 5: 593. 1877; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 113. 1983.
Alpine NW Himalaya.

Ferula narthex Boiss., Fl. orient. 2: 994. 1872; C.B. Clarke in Hook.f., Fl. Brit. India 2: 707. 1879.
Alpine NW Himalaya.

Ferula ovina (Boiss.) Boiss., Fl. orient. 2: 986. 1872; P.K. Mukh. in Bull. Bot. Surv. India 24: 45. (1982) 1983.
Peucedanum ovinum Boiss., Diagn. pl. orient. 2: 61. 1845.
Peucedanum thomsoni C.B. Clarke in Hook.f., Fl. Brit. India 2: 711. 1879.
NW Himalaya.

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NW India.

Ferula thomsoni C.B. Clarke in Hook.f., Fl. Brit. India 2: 708. 1879.
NW Himalaya.

Ferula wolffii Korovin, Gen. Ferula 35. 1947; P.K. Mukh. & Constance, Umbell. India 223. 1993.
NW Himalaya.

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Cultivated.

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Haplosphaera himalayensis Ludlow in Bull. Brit. Mus. (Nat. Hist.), Bot. 5: 276. 1976.
E Himalaya, NE India.

HERACLEUM L., Sp. pl. 249. 1753.
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TETRATAENIUM (DC.) Manden. in Trudy Tbilissk. Bot. Inst. 20: 16. 1959.

Heracleum aquilegifolium C.B. Clarke in Hook.f., Fl. Brit. India 2: 715. 1879.
W Ghats (Maharashtra, Tamilnadu).

Heracleum biternatum W. W. Sm. in Rec. Bot. Surv. India 6: 37. 1913; P.K. Mukh. & Constance, Umbell. India 239. 1993.
NE India.

Heracleum burmanicum Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 41: 309. 1872 ('barmanicum'); C.B. Clarke in Hook.f., Fl. Brit. India 2: 714. 1879.
NE India.

Heracleum candicans Wall. ex DC., Prodr. 4: 192. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 714. 1879.
Tetrataenium candicans (Wall. ex DC.) Manden. in Zametki Sist. Geogr. Rast. 41: 44. 1986.
Himalayas.

Heracleum candolleanum (Wight & Arn.) Gamble, Fl. Madras 565. 1919 (1: 399. 1967, Repr.).
Pastinaca candolleana Wight & Arn., Prodr. fl. Ind. orient. 372. 1834.
Heracleum rigens var. *candolleanum* (Wight & Arn.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 715. 1879.
Heracleum courtallense Gamble, Fl. Madras 565. 1919 (1: 399. 1967, Repr.).
SW Ghats.

Heracleum canescens Lindl. in Royle, Ill. bot. Himal. Mts. 232. 1835; C.B. Clarke in Hook.f., Fl. Brit. India 2: 713. 1879.
W Himalaya.

Heracleum ceylanicum (Gardner) C.B. Clarke in Hook.f., Fl. Brit. India 2: 716. 1879; Gamble, Fl. Madras 1: 399. 1967 (Repr.).
Peucedanum ceylanicum Gardner in Calcutta J. Nat. Hist. 8: 14. 1847.
SW Ghats (Tamilnadu).

Heracleum dalgadianum S.M. Almeida in Indian Forester 111: 158, f. 1. 1985.
NW Ghats (Maharashtra).

Heracleum grande (Dalzell & A. Gibson) P.K. Mukh. in Sci. & Cult. 39: 542. 1973.
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NW Ghats (Maharashtra).

Heracleum hookerianum Wight & Arn., Prodr. fl. Ind. orient. 373. 1834; C.B. Clarke in Hook.f., Fl. Brit. India 2: 715. 1879.
Pastinaca hookeriana (Wight & Arn.) Wight, Icon. pl. Ind. orient. t. 1010. 1845.
SW Ghats (Nilgiris).

Heracleum jacquemontii C.B. Clarke in Hook.f., Fl. Brit. India 2: 712. 1879.
NW Himalaya.

Heracleum lallii C. Norman in J. Bot. 67: 247. 1929; Cannon in H. Hara & L.H. J. Williams, Enum. fl. pl. Nepal 2: 186. 1979.
C Himalaya.

Heracleum nepalense D. Don, Prodr. fl. nepal. 165. 1825; C.B. Clarke in Hook.f., Fl. Brit. India 2: 714. 1879.
E Himalaya.

Heracleum obtusifolium Wall. ex DC., Prodr. 4: 191. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 714. 1879.
Tetrataenium obtusifolium (Wall. ex DC.) Manden. in Zametki Sist. Geogr. Rast. 42: 13. 1991.
Heracleum candicans var. *obtusifolium* (Wall. ex DC.) F.T. Pu & M.F. Watson in Acta Phytotax. Sin. 42: 562. 2004.
E Himalaya.

Heracleum pinnatum C.B. Clarke in Hook.f., Fl. Brit. India 2: 712. 1879.
W Himalaya.

Heracleum rigens DC., Prodr. 4: 191. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 715. 1879.
Heracleum rigens var. *multiradiatum* Gamble, Fl. Madras 565. 1919 (1: 398. 1967, Repr.).
Heracleum rigens var. *elongatum* Gamble, Fl. Madras 565. 1919 (1: 399. 1967, Repr.).
SW Ghats.

Heracleum sprengelianum Wight & Arn., Prodr. fl. Ind. orient. 372. 1834; C.B. Clarke in Hook.f., Fl. Brit. India 2: 716. 1879.
Pastinaca sprengeliana (Wight & Arn.) Wight, Icon. pl. Ind. orient. t. 1008. 1845.
W Ghats.

Heracleum sublineare C.B. Clarke in Hook.f., Fl. Brit. India 2: 713. 1879; M.F. Watson in Edinburgh J. Bot. 55: 374. 1998.
Tetrataenium sublineare (C.B.Clarke) Manden. in Trudy Tbilissk. Bot. Inst. 20: 16. 1959; Tarille et al. in Candollea 40: 562. 1985.
C to E Himalaya.

Heracleum wallichii DC., Prodr. 4: 195. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 712. 1879.
E Himalaya.

Heracleum woodii M.F. Watson in Edinburgh J. Bot. 53: 133, t. 2 A-C. 1996.
Heracleum nepalense var. *bivittatum* C.B. Clarke in Hook.f., Fl. Brit. India 2: 714. 1879 non *Heracleum bivittatum* H. Boissieu, 1903.
C & E Himalaya.

HYDROCOTYLE L., Sp. pl. 234. 1753.

Hydrocotyle conferta Wight, Icon. pl. Ind. orient. t. 1002. 1845; C.B. Clarke in Hook.f., Fl. Brit. India 2: 668. 1879.
SW Ghats (Kerala, Tamilnadu).

Hydrocotyle hookeri (C.B.Clarke) Craib in Bull. Misc. Inform. 1911: 59. 1911.
Hydrocotyle javanica var. *hookeri* C.B. Clarke in Hook.f., Fl. Brit. India 2: 668. 1879.
NE India.

Hydrocotyle javanica Thunb., Hydrocotyle no. 17, t. 2. 1798; C.B. Clarke in Hook.f., Fl. Brit. India 2: 667. 1879.
Throughout India.

 # Hydrocotyle nepalensis Hook., Exot. fl. 1: t. 30. 1823; M.L. Sheh, M.F. Watson & Cannon in C.Y. Wu et al. (Eds.), Fl. China 14: 14. 2005.
Hydrocotyle javanica sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 667. 1879, p.p.
C & E Himalaya, NE India.

Hydrocotyle podantha Molk. in Miq., Pl. jungh. 89. 1851; H. Hara, Fl. E. Himal. 230. 1966.
Hydrocotyle javanica var. *podantha* (Molk.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 668. 1879.
Hydrocotyle himalaica P.K. Mukh. in Indian Forester 95: 470. 1969.
E Himalaya, NE India.

Hydrocotyle ramiflora Maxim. in Bull. Acad. Imp. Sci. Saint-Petersbourg 31: 46. 1887; P.K. Mukh. & Constance, Umbell. India 12. 1993.
NE India.

Hydrocotyle siamica Craib in Bull. Misc. Inform. 1911: 58. 1911; M. Hiroe, Umbell. World 137. 1979.
Hydrocotyle javanica var. *siamica* Hosseus in Beih. Bot. Centralbl. 28: 420. 1911.
NE India.

Hydrocotyle sibthorpioides Lam., Encycl. 3: 153. 1789; R.K. Gupta, Fl. nainital. 154. 1968.
Hydrocotyle rotundifolia Roxb. ex DC., Prodr. 4: 64. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 668. 1879.
Almost throughout India.

INDOSCHULZIA Pimenov & Kljuykov in Kew Bull. 50: 639. 1995.

Indoschulzia garhwalica (H. Wolff) Pimenov & Kljuykov in Kew Bull. 50: 641. 1995.
Trachydium garhwalicum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 124. 1929.

Trachyspermum wolffianum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 180. 1929.
Chamaesciadium garhwalicum (H. Wolff) C. Norman in J. Bot. 76: 232. 1938.
Schulzia garhwalica (H. Wolff) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 43. 1991.
C to W Himalaya.

Indoschulzia hameliana (Farille & S. B. Malla) Pimenov & Kljuykov in Kew.Bull. 50: 641. 1995.
Trachydium hamelianum Farille & S.B. Malla in Bull. Soc. Bot. France 131:64, t.1,f.1. 1984.
Chamaesciadium hamelianum (Farille & S.B. Malla) Farille in Candollea 40: 557. 1985.
Schulzia hameliana (Farille & S.B. Malla) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 43. 1991.
Himalayas.

KARNATAKA P.K. Mukh. & Constance in Brittonia 38: 145. 1986.

Karnataka benthamii (C.B.Clarke) P.K. Mukh. & Constance in Brittonia 38: 145, f. 1. 1986.
Schulzia benthamii C.B. Clarke in Hook.f., Fl. Brit. India 2: 697. 1879 ('Schultzia').
Pimpinella benthamii (C.B. Clarke) M.R. Almeida, Fl. Maharashtra 2: 358. 1998.
Karnataka, Maharashtra ?

KEDARNATHA P.K. Mukh. & Constance in Brittonia 38: 147. 1986.

Kedarnatha sanctuarii P.K. Mukh. & Constance in Brittonia 38: 147, f. 1. 1986.
W Himalaya (Kedarnath).

KERAYMONIA Farille in Candollea 40: 528. 1985.

Keraymonia cortiformis Cauwet & S.B. Malla in Candollea 40: 531. 1985.
C Himalaya.

Keraymonia nipaulensis Cauwet & Farille in Candollea 40: 528, f.1. 1985.
C Himalaya.

Keraymonia triradiata Cauwet & Farille in Candollea 40: 531. 1985.
C Himalaya.

LALLDHWOJIA Farille in Rev. Gen. Bot. 91: 27. 1984.

Lalldhwojia acronemifolia (H. Wolff) M.F. Watson apud D.G. Long in Edinburgh J. Bot. 56: 307. 1999.
Peucedanum acronemifolium H. Wolff in Repert. Spec. Nov. Regni Veg. 33: 246. 1933.
Lalldhwojia staintonii Farille in Rev. Gen. Bot. 91: 28. 1984.
C & E Himalaya.

Lalldhwojia cooperi Farille in Rev. Gen. Bot. 91: 31. 1984; G.S. Rawat in J. Bombay Nat. Hist. Soc. 84: 725. 1987.
C & E Himalaya, N India.

LIGUSTICUM L., Sp. pl. 250. 1753.

Ligusticum afghanicum Rech. f. in Rech. f. & Riedl in Biol. Skr. 14 (4): 94. 1963; P.K. Mukh. & Constance, Umbell. India 173. 1993.
Cortia schmidii Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 115. 1972.
Ligusticum schmidii (Nasir) Farille & S.B. Malla in Candollea 40: 551. 1985.
W Himalaya.

Ligusticum daucoides Franch. in Bull. Soc. Philom. Paris 6: 135. 1894; M.A. Rau, High alt. fl. pl. W. Himal. 114. 1975.
W Himalaya.

Ligusticum elatum (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 698. 1879; F.T. Pu & M.F. Watson in C.Y. Wu et al. (Eds.), Fl. China 14: 145. 2005.
Cortia elata Edgew. in Trans. Linn. Soc. London 20: 55. 1851.
NW Himalaya.

Excluded species: Razi in Rec. Bot. Surv. India 18(1): 30. 1959 reported the following species from India; however, they were found to be from China:

Ligusticum calophlebicum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 310. 1930,
Ligusticum capillaceum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 311. 1930,
Ligusticum falcarioides H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 311. 1930,
Ligusticum glaucifolium H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 312. 1930,
Ligusticum integrifolium H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 307. 1930,
Ligusticum kingdon-wardii H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 306. 1930,
Ligusticum kutingense H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 314. 1930,
Ligusticum markgraffianum Fedde in Repert. Spec. Nov. Regni Veg. 27: 313. 1930,
Ligusticum pilgerianum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 307. 1930,
Ligusticum scapiforme H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 308. 1930,
Ligusticum uwuraе H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 318. 1930,
Ligusticum weberbauerianum Fedde in Repert. Spec. Nov. Regni Veg. 27: 312. 1930 and
Ligusticum wolffianum Fedde in Repert. Spec. Nov. Regni Veg. 27: 318. 1930.

LISAEA Boiss. in Ann. Sci. Nat. Bot. ser. 3, 2: 54. 1844.

Lisaea heterocarpa (DC.) Boiss., Fl. orient. 2: 1088. 1872; Nasir in Nasir & Ali, (Eds.), Fl. W. Pakistan 20: 110. 1972.
Turgenia heterocarpa DC., Prodr. 4: 218. 1830.
Lisaea grandiflora Boiss. in Ann. Sci. Nat. Bot. ser. 3, 2: 54. 1844.
NW Himalaya.

MEEBOLDIA H. Wolff in Repert. Spec. Nov. Regni Veg. 19: 313. 1924.

Meeboldia achilleifolia (DC.) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 44. 1991.
Ptychotis achilleifolia DC., Prodr. 4: 109. 1830.
Pimpinella achilleifolia (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 684. 1879.
Meeboldia setinoides H. Wolff in Repert. Spec. Nov. Regni Veg. 19: 313. 1924.
Vicatia achilleifolia (DC.) P.K. Mukh. in Bull. Bot. Surv. India 24: 43. 1983.
Tongoloa achilleifolia (DC.) Pimenov & Kljuykov in Feddes Repert. 102: 383. 1991.
Himalayas.

NEOCONOPODIUM (Koso-Pol.) Pimenov & Kljuykov in Feddes Repert. 98: 377. 1987.
CONOPODIUM W.D.J. Koch III. NEOCONOPODIUM Koso-Pol. in Bull. Soc. Imp. Naturalistes Moscou n.s. 29: 206. 1916.

Neoconopodium capnoides (Decne.) Pimenov & Kljuykov in Feddes Repert. 98: 377. 1987; P.K. Mukh. & Constance, Umbell. India 46. 1993.
Butinia capnoides Decne. in Jacquem., Voy. Inde 4: 70, t. 80. 1844.
Chaerophyllum capnoides (Decne.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 691. 1879.
Conopodium capnoides (Decne.) Koso-Pol. in Bull. Soc. Imp. Naturalistes Moscou n.s. 29: 206. 1916.
W Himalaya.

OENANTHE L., Sp. pl. 254. 1753.

Oenanthe hookeri C.B. Clarke in Hook.f., Fl. Brit. India 2: 697. 1879.
Meghalaya.

Oenanthe javanica (Blume) DC., Prodr. 4: 138. 1830; Buwalda in Steenis, Fl. males. ser. I, 4: 136. 1949.
Sium javanicum Blume, Bijdr. 881. 1826.
Oenanthe stolonifera DC., Prodr. 4: 138. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 696. 1879.
Seseli benghalensis Roxb., Fl. ind. (Ed. Carey) 2: 94. 1832.
Oenanthe corticata Edgew. in Trans. Linn. Soc. London 20: 53. 1851.
Oenanthe benghalensis (Roxb.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 9: 115. 1877; C.B. Clarke in Hook.f., Fl. Brit. India 2: 696. 1879.
Oenanthe stolonifera var. *corticata* (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 696. 1879.
Oenanthe stolonifera var. *khasiana* C.B. Clarke in Hook.f., Fl. Brit. India 2: 696. 1879.
E N & NE India, Himalayas, Upper Gangetic Plains.

Oenanthe linearis DC., Prodr. 4: 138. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 696. 1879; F.T. Pu & M.F. Watson in C.Y. Wu et al. (Eds.) Fl. China 14: 132. 2005.
C Himalaya.

Oenanthe thomsoni C.B. Clarke in Hook.f., Fl. Brit. India 2: 697. 1879.
E Himalaya, NE India.

OSMORHIZA Raf. in J. Phys. Chim. Hist. Nat. Arts 89: 257. 1819.

Osmorhiza aristata (Thunb.) Rydb. in Bot. Surv. Nebraska 3: 37. 1894.
Chaerophyllum aristatum Thunb., Fl. jap. 119. 1784.
Osmorhiza laxa Royle ex Lindl. in Royle, Ill. bot. Himal. Mts. 233. 1835.
Osmorhiza aristata var. *laxa* (Royle ex Lindl.) Constance & R.H. Shan in Univ. Calif. Publ. Bot. 23: 130. 1948.
Osmorhiza claytoni sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 690. 1879 p.p. non *Myrrhis claytoni* Michx., 1803.
Himalayas.

Osmorhiza claytoni (Michx.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 690. 1879.
Myrrhis claytoni Michx., Fl. bor.-amer. 1: 170. 1803.
NW Himalaya.

PASTINACA L., Sp. pl. 262. 1753.

Pastinaca sativa L., Sp. pl. 262. 1753; Chandrab. in N.C. Nair & A.N. Henry (Eds.), Fl. Tamilnadu anal. 1: 180. 1983.
Peucedanum sativum (L.) Benth. & Hook.f., Gen. pl. 1: 920. 1867; Gamble, Fl. Madras 1: 397. 1967 (Repr.).
Cultivated.

PEUCEDANUM L., Sp. pl. 245. 1753.

Peucedanum anamallayense C.B. Clarke in Hook.f., Fl. Brit. India 2: 710. 1879.
SW Ghats (Tamilnadu).

Peucedanum dehradunense Babu in Indian Forester 96: 535. 1970.
W Himalaya.

Peucedanum dhana C.B. Clarke in Hook.f., Fl. Brit. India 2: 709. 1879.
var. **dhana**.
W Himalaya.

var. **dalzellii** C.B. Clarke in Hook.f., Fl. Brit. India 2: 709. 1879.
E to Peninsular India.

Peucedanum josephianum Wadhwa & H.J. Chowdhery in Indian J. Forest. 13: 78, t. 1, A-E. 1990.
SW Ghats (Agastyamalai).

Peucedanum malcolmii Hemsl. ex H. Pearson in J. Linn. Soc., Bot. 35: 179. 1902; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 521. 1972; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 116. 1983.
NW Himalaya.

Peucedanum nagpurense (C.B.Clarke) Prain, Bengal pl. 1: 540. 1903 (1: 394. 1963, Repr.).
Peucedanum glaucum var. *? nagpurensis* C.B. Clarke in Hook.f., Fl. Brit. India 2: 710. 1879.
C & E India.

Peucedanum nepalense P.K. Mukh. in Indian Forester 95: 567. 1969.
Peucedanum glaucum DC., Prodr. 4: 179. 1830 non Link, 1821; C.B. Clarke in Hook. f., Fl. Brit. India 2: 710. 1879.
N India, Upper Gangetic Plains.

Peucedanum ramosissimum (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 709. 1879.
Palimbia ramosissima DC., Prodr. 4: 176. 1830.
NE India.

Peucedanum ? skardicum C.B. Clarke in Hook.f., Fl. Brit. India 2: 711. 1879.
NW Himalaya.

Excluded species: Razi in Rec. Bot. Surv. India 18(1) :40. 1959 reported *Peucedanum angelicoides* H. Wolff ex Krets. in Repert. Spec. Nov. Regni Veg. 27: 313. 1930 from India but it is found to be from China.

PHYSOSPERMOPSIS H. Wolff in Notizbl. Bot. Gart. Berlin-Dahlem 9: 276. 1925.

Physospermopsis bhutanensis Farille & S.B. Malla in Candollea 40: 516, t. 1. 1985.
E Himalaya.

Physospermopsis kingdon-wardii (H. Wolff) C.Norman in J. Bot. 76: 231. 1938; P.K. Mukh. & Constance, Umbell. India 110. 1993.
Trachydium kingdon-wardii H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 124. 1929.
Pleurospermum kingdon-wardii (H. Wolff) M. Hiroe, Umbell. World 747. 1979.
E Himalaya.

Physospermopsis obtusiuscula (DC.) C. Norman in J. Bot. 76: 231, t. 2. 1938; M.F. Watson in Edinburgh J. Bot. 55: 375. 1998.
Hymenidium obtusiusculum DC., Prodr. 4: 246. 1830.
Trachydium hirsutulum C.B. Clarke in Hook.f., Fl. Brit. India 2:672. 1879.
Trachydium obtusiusculum (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 673. 1879.
Trachydium obtusiusculum var. *stricta* C.B. Clarke in Hook.f., Fl. Brit. India 2: 673. 1879.
Pleurospermum obtusiusculum (DC.) M. Hiroe, Umbell. World 741. 1979.
Physospermopsis hirsutula (C.B.Clarke) Farille in Candollea 40: 513. 1985.
Physospermopsis farillei P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 41. 1991.
E Himalaya.

Physospermopsis rubrinervis (Franch.) C. Norman in J. Bot. 76: 231. 1938.
Trachydium rubrinerve Franch. in Bull. Soc. Philom. Paris 6: 112. 1894.
Physospermopsis muktinathensis Farille & S.B. Malla in Candollea 40: 512, f. 1. 1985.
C Himalaya.

PIMPINELLA L., Sp. pl. 263. 1753.

Pimpinella acuminata (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 686. 1879.
Reutera acuminata Edgew. in Trans. Linn. Soc. London 20: 52. 1851.
Pimpinella hazariensis H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 331. 1930.
W Himalaya.

Pimpinella adscendens Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 261. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 2: 689. 1879.
NW Ghats (Maharashtra to Goa).

Pimpinella atropurpurea C.Y. Wu ex R.H. Shan & F.T. Pu in Acta Phytotax. Sin. 21: 81. 1983.
Pimpinella chateriana Cannon & Farille in Candollea 40: 554. 1985.
E Himalaya.

Pimpinella bracteata Haines in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 15: 314. 1920 & Bot. Bihar Orissa 409. 1921 (2:427. 1961, Repr.).
Andhra Pradesh to Bihar.

Pimpinella candolleana Wight & Arn., Prodr. fl. Ind. orient. 369. 1834; Wight, Icon. pl. Ind. orient. t. 341. 1840; C.B. Clarke in Hook.f., Fl. Brit. India 2: 687. 1879.
W Ghats.

Pimpinella diversifolia DC., Prodr. 4: 122. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 688. 1879.
var. diversifolia.
Himalayas, NE India.

var. **alpina** C.B. Clarke in Hook.f., Fl. Brit. India 2: 688. 1879.
E Himalaya.

var. **divisa** C.B. Clarke in Hook.f., Fl. Brit. India 2: 688. 1879.
NW Himalaya.

var. **stolonifera** Hand.-Mazz., Symb.sin. 7: 714. 1933; Cannon in H.Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 188. 1979.
Pimpinella diversifolia var. *sarmentifera* Goel & U.C. Bhattach. in J. Econ. Taxon. Bot. 6: 213. 1985.
Himalayas.

Pimpinella elata (H. Wolff) M. Hiroe, Umbell. Asia 59. 1958 & Umbell. World 798. 1979.
Tongoloa elata H. Wolff in Acta Horti Gothob. 2: 291. 1926; Cannon in H. Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 189. 1979.
C Himalaya.

Pimpinella evoluta (C.B. Clarke) M. Hiroe, Umbell. World 831. 1979.
Pimpinella tenera (DC.) C.B. Clarke var. *evoluta* C.B. Clarke in J. Linn. Soc., Bot. 25: 27, t. 14. 1899.
Acronema evolutum (C.B. Clarke) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 322. 1927.
Nagaland.

Pimpinella flaccida C.B. Clarke in J. Linn. Soc., Bot. 25: 28. 1889.
Carum flaccidum (C.B. Clarke) Franch. in Bull. Soc. Philom. Paris 6: 126. 1894.
Nagaland.

Pimpinella hastata C.B. Clarke in Hook.f., Fl. Brit. India 2: 687. 1879.
NE India.

Pimpinella heyneana (DC.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 46: 115. 1877; C.B. Clarke in Hook.f., Fl. Brit. India 2: 684. 1879.
Helosciadium heyneanum DC., Prodr. 4: 106. 1830.
Pimpinella multiradiata Santapau in Kew Bull. 1948. 485. 1949.
E to Peninsular India.

Pimpinella inundata (Farille & S.B. Malla) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 44. 1991.
Ligusticum inundatum Farille & S.B. Malla in Candollea 40: 551. 1985.
C Himalaya.

Pimpinella leschenaultii DC., Prodr. 4: 122. 1830; Wight, Icon. pl. Ind. orient. t. 1005. 1845; C.B. Clarke in Hook.f., Fl. Brit. India 2: 687. 1879.
SW Ghats (Tamilnadu).

Pimpinella nervosa C.B. Clarke in Hook.f., Fl. Brit. India 2: 684. 1879.
NE India.

Pimpinella pimpinellisimulacrum (Farille & S.B. Malla) Farille in Candollea 40: 554. 1985.
Similisinocarum pimpinellisimulacrum Farille & S.B. Malla in Bull. Soc. Bot. France, Lett. Bot. 131: 70. 1984.
C Himalaya.

Pimpinella pulneyensis Gamble in Bull. Misc. Inform. 1919: 228. 1919 & Fl. Madras 360. 1919 (1: 395. 1967, Repr.).
SW Ghats (Tamilnadu).

Pimpinella rollae Billore & Hemadri in Indian Forester 108: 712-714. 1982.
NW Ghats (Maharashtra).

Pimpinella sikkimensis C.B. Clarke in Hook.f., Fl. Brit. India 2: 685. 1879.
E Himalaya.

Pimpinella stracheyi C.B. Clarke in Hook.f., Fl. Brit. India 2: 688. 1879.
W Himalaya.

Pimpinella tibetanica H. Wolff in Kepert. Spec. Nov. Regni Veg. 27: 319. 1930; Cannon in H.Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 188. 1979.
C Himalaya.

Pimpinella tirupatiensis N.P.Balakr. & Subr. in Bull. Bot. Surv. India 2: 427. 1960.
E Ghats (Andhra Pradesh).

Pimpinella tomentosa C.B. Clarke in Hook.f., Fl. Brit. India 2: 689. 1879.
Heracleum tomentosum Dalzell & A.Gibson, Bombay fl. 108, 313. 1861 non Sibth. & Sm., 1806.
NW Ghats (Maharashtra).

Pimpinella tongloensis P.K. Mukh. in Bull. Bot. Surv. India 12: 7. 1970.
E Himalaya.

Pimpinella urceolata G. Watt ex Banerji in J. Bombay Nat. Hist. Soc. 50: 89. 1951.
E Himalaya.

Pimpinella wallichiana (Miq. ex Hohen.) Gandhi in C.J. Saldanha & Nicolson, Fl. Hassan dist. 417. 1976; P.K. Mukh. in Bull. Bot. Surv. India 24: 45. (1982) 1983.
Helosciadium wallichianum Miq. ex Hohen. in Bot. Zeitung (Berlin) 7: 775. 1849.
Pimpinella monoica Dalzell in Hooker's J. Bot. Kew Gard. Misc. 3: 212. 1851; C.B. Clarke in Hook.f., Fl. Brit. India 2: 687. 1879.

Pimpinella duthiei H. Wolff in Repert. Spec. Nov. Regni Veg.27: 330. 1930.
Pimpinella katrajensis R.S. Rao & Hemadri in Indian Forester 102: 232. 1976.
Pimpinella wallichiana var. *katrajensis* (R.S. Rao & Hemadri) M.R. Almeida, Fl. Maharashtra 2: 360. 1998.
E to Peninsular India.

Pimpinella wallichii C.B. Clarke in Hook.f., Fl. Brit. India 2: 685. 1879.
C to E Himalaya.

Excluded species: Razi in Rec. Bot. Surv. India 18(1): 41. 1959 recorded *Pimpinella urbaniana* Fedde ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 330. 1930 from 'India'; however, it is found to be from China.

PINDA P.K. Mukh. & Constance in Kew Bull. 41: 224. 1986.

Pinda concanensis (Dalzell) P.K. Mukh. & Constance in Kew Bull. 41: 226. 1986.
Heracleum concanense Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 260. 1850; C.B. Clarke in Hook.f., Fl. Brit. India 2: 716. 1879.
Heracleum pinda Dalzell & A.Gibson, Bombay fl. 107. 1861; C. B. Clarke in Hook.f., Fl. Brit. India 2: 717. 1879.
Heracleum grandiflorum Dalzell & A. Gibson, Bombay fl. 108. 1861.
NW Ghats (Maharashtra).

PLEUROSPERMOPSIS C. Norman in J. Bot. 76: 200. 1938.

Pleurospermopsis sikkimensis (C.B. Clarke) C. Norman in J. Bot. 76: 200. 1938; Farille et al. in Candollea 40: 522. 1985.
Pleurospermum sikkimense C.B. Clarke in Hook.f., Fl. Brit. India 2: 702. 1879.
C to E Himalaya.

PLEUROSPERMUM Hoffm., Gen. pl.umbell. viii. 1814.

Pleurospermum album C.B. Clarke ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 113. 1929.
E Himalaya.

Pleurospermum amabile Craib & W.W. Sm. in Trans. & Proc. Bot. Soc. Edinburgh 26: 154. 1913; P.K. Mukh. & Constance, Umbell. India 200. 1993.
E Himalaya.

Pleurospermum angelicoides (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 703. 1879; Farille et al. in Candollea 40: 523. 1985.
Hymenolaena angelicoides DC., Prodr. 4: 245. 1830.
Pterocyclus angelicoides (DC.) Klotzsch in Klotzsch & Garcke, Bot. Ergebn. Reise Waldemar 150, t. 47. 1862.
Himalayas, NE India.

Pleurospermum apiolens C.B. Clarke in Hook.f., Fl. Brit. India 2: 705. 1879; Farille et al. in Candollea 40: 524. 1985.
Pleurospermum apiolens var. *nipaulensis* Farille & S.B. Malla in Candollea 40: 524. 1985.
C & E Himalaya.

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Pleurospermum davidii Franch. in Nouv. Arch. Mus. Hist. Nat. 88 (8): 247. 1885.
E Himalaya.

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C to E Himalaya, NE India.

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Hymenolaena brunonis DC., Prodr. 4: 245. 1830.
Hymenidium brunonis (DC.) Lindl. in Royle, Ill. bot. Himal. Mts. 233. 1835.
C to W Himalaya.

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Hymenolaena candollii DC., Prodr. 4: 245. 1830.
W Himalaya.

Pleurospermum cavalerii M. Hiroe, Umbell. World 746. 1979; H.B. Naithani, Fl. pl. India, Nepal & Bhutan 190. 1990.
Pleurospermum wolffianum Fedde ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 119. 1929.
Physospermopsis wolffiana Fedde ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 179. 1929.
E Himalaya.

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Hymenolaena corydalifolia (Aitch. & Hemsl.) Rech. f. & Riedl in Biol. Skr. 13(4): 88. 1963.
NW Alpine Himalaya.

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W Himalaya.

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Hymenolaena dentata DC., Prodr. 4: 235. 1830.
Himalayas.

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Hymenolaena dentata var. *erosa* DC., Prodr. 4: 245. 1830.
Pleurospermum dentatum var. *erosa* (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 704. 1879.
Himalayas.

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W Himalaya.

Pleurospermum pilosum C.B. Clarke ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 117. 1929.
E Himalaya.

Pleurospermum pumilum (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 704. 1879.
Hymenolaena pumila DC., Prodr. 4: 245. 1830.
C to E Himalaya.

Pleurospermum rotundatum (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 703. 1879.
Hymenolaena rotundatum DC., Prodr. 4: 245. 1830.
C Himalaya.

Pleurospermum stellatum (D. Don) C.B. Clarke in Hook.f., Fl. Brit. India 2: 704. 1879; Farille et al. in Candollea 40: 525. 1985.
Selinum stellatum D. Don, Prodr. fl. nepal. 185. 1825.
Hymenolaena stellata (D. Don) Lindl. in Royle, Ill. bot. Himal. Mts. 233. 1835.
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C to W Himalaya.

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C Himalaya.

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NW Ghats (Maharashtra).

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W Himalaya.

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Athamanta canescens DC., Prodr. 4: 155. 1830.
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Psammogeton canescens var. *villosum* (C.B.Clarke) Babu, Herb. fl. Dehra Dun 217. 1977.
N India, Upper Gangetic Plains, W Himalaya.

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CRYPTOTAENIOPSIS (Franch.) Dunn in Hooker's Icon. Pl. ser. 4, 28: t. 2737. 1905.

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NE India.

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Pimpinella radiata W.W. Sm. in Rec. Bot. Surv. India 4: 266. 1911.
Acronema radiata (W.W. Sm.) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 324. 1927.
E Himalaya.

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Arunachal Pradesh.

Pternopetalum subalpinum Hand.-Mazz., Symb. sin. 7: 718. 1933; F.T. Pu & Phillippe in C.Y. Wu et al. (Eds.) Fl. China 14: 91. 2005.
E Himalaya, NE India.

Pternopetalum tanakae (Franch. & Sav.) Hand.-Mazz., Symb. sin. 7: 719. 1933; Farille et al. in Candollea 40: 557. 1985.
Chamaele tanakae Franch. & Sav., Enum. pl. Jap. 1: 185. 1875, nom. nud.
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Pimpinella tanakae (Franch. & Sav.) Diels in Engl., Bot. Jahrb. Syst. 29: 494. 1900.
Cryptotaeniopsis tanakae (Franch. & Sav.) Boiss. in Bull. Herb. Boissier 2, 2: 806. 1902.
Assam.

Pternopetalum vulgare (Dunn) Hand.-Mazz., Symb. sin. 7: 719. 1933; Farille et al. in Candollea 40: 557. 1985.
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Pimpinella clarkeana G. Watt ex Banerji in J. Bombay Nat. Hist. Soc. 50: 88. 1951.
NE India.

Excluded species: Razi in Rec. Bot. Surv. India 18(1): 14. 1959 has recorded *Cryptotaeniopsis affinis* H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 328. 1930 from 'India' but it has been found to occur in China.

PYCNOCYCLA Lindl. in Royle, Ill. bot. Himal. Mts. 232, t. 51. 1835.

Pycnocycla glauca Lindl. in Royle, Ill. bot. Himal. Mts. 232, t. 51. 1835; C.B. Clarke in Hook.f., Fl. Brit. India 2: 694. 1879.
Chamaesciadium glaucum (Lindl.) M. Hiroe, Umbell. World 995. 1979.
C. E. & NW India.

SANICULA L., Sp. pl. 235. 1753.

Sanicula elata Buch.-Ham. ex D. Don, Prodr. fl. nepal. 183. 1825; R.K. Gupta, Fl. nainital. 143. 1968.
Sanicula europea sensu C.B. Clarke in Hook. f., Fl. Brit. India 2: 670. 1879.
Sanicula europea L. var. *pseudoyunnanensis* H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 113. 1929.
C NE & S India, Himalayas.

Sanicula hacquetioides Franch. in Bull. Soc. Philom. Paris 6: 110. 1894; C.E.C. Fisch. in Bull. Misc. Inform. 1934: 91. 1934; Kanjilal et al., Fl. Assam 2: 380. 1938.
NE India.

Sanicula orthacantha S. Moore in J. Bot. 13: 227. 1875; M.L. Sheh & Phillippe in C.Y. Wu et al. (Eds.), Fl. China 14: 22. 2005.
India.

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SCALIGERIA DC., Coll. mem. Ombellif. 5: 70. 1829, nom.cons.

Scaligeria stewartianum (Nasir) Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 79. 1972; Hamal & A.K. Koul in J. Bombay Nat. Hist. Soc. 80: 244. 1983.
Bunium stewartianum Nasir in Biologia (Lahore) 9: 39. 1963.
NW Himalaya.

SCANDIX L., Sp. pl. 256. 1753.

Scandix pecten-veneris L., Sp. pl. 256. 1753; C.B. Clarke in Hook.f., Fl. Brit. India 2: 692. 1879.
NW India & NW Himalaya.

SCHULZIA Spreng. in Neue Schriften. Naturf. Ges. Halle 2 (1): 30. 1813, nom. cons.

Schulzia dissecta (C. B. Clarke) C. Norman in J. Bot. 76: 231. 1938; Raizada in Indian Forester 84: 507. 1958; M.F. Watson in Edinburgh J. Bot. 55: 378. 1998.
Trachydium dissectum C.B. Clarke in Hook.f., Fl. Brit. India 2: 672. 1879.
Ligusticum ballistanicum H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 310. 1930.
Himalayas.

SELINUM L., Sp. pl. ed. 2. 350. 1762, nom.cons.
OREOCOME Edgew. in Proc. Linn. Soc. London 1: 252. 1845.

Selinum candollii DC., Prodr. 4: 165. 1830; C.B. Clarke in Hook.f., Fl. Brit. India 2: 700. 1879.
Himalayas.

Selinum elatum (Edgew.) M. Hiroe, Umbell. Asia 154. 1958.
Oreocome elata Edgew. in Proc. Linn. Soc. London 1: 253. 1845.
Selinum tenuifolium var. *elata* (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 700. 1879.
C to W Himalaya.

Selinum papyraceum C.B. Clarke in Hook.f., Fl. Brit. India 2: 701. 1879.
Himalayas.

Selinum stelliphorum (Cauwet & Farille) Karthik. & Moorthy comb.nov.
Oreocome stelliphora Cauwet & Farille in Candollea 40: 549. 1985.
C to W Himalaya.

Selinum striatum (DC.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 699. 1879.
Ligusticum striatum DC., Prodr. 4: 158. 1830.
Pimpinella bengalensis H. Wolff in Repert. Spec. Nov. Regni Veg.17: 170. 1921.
NE India, E Himalaya (?).

Selinum vaginatum (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 700. 1879.
Cortia vaginata Edgew. in Trans. Linn. Soc. London 20: 55. 1851.
var. **vaginatum**.
W Himalaya.

var. **garhwalensis** Babu & Suk.Chandra in J. Bombay Nat. Hist. Soc. 68: 497. 1971.
W Himalaya.

Selinum wallichianum (DC.) Raizada & H.O. Saxena in Indian Forester 92: 323. 1966.
Selinum tenuifolium DC., Prodr. 4: 181. 1830 non Salisb., 1796; C.B. Clarke in Hook.f., Fl. Brit. India 2: 700. 1897.
Peucedanum wallichianum DC., Prodr. 4: 181. 1830.
Ligusticum conilifolium DC., Prodr. 4: 158. 1830.
Pleurospermum cicutarium Lindl. in Royle, Ill. bot. Himal. Mts. 233. 1839.
Oreocome filicifolia Edgew. in Proc. Linn. Soc. London 1: 253. 1845.
Selinum tenuifolium var. *filicifolia* (Edgew.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 700. 1879.
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Selinum filicifolium (Edgew.) Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 119. 1972.
Himalayas.

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Heracleum thomsonii C.B. Clarke in Hook.f., Fl. Brit. India 2: 711. 1879.
Heracleum thomsonii var. *glabrior* C.B. Clarke in Hook.f., Fl. Brit. India 2: 712. 1879.
Platytaenia lasiocarpa ssp. *thomsonii* (C.B.Clarke) Rech. f. & Riedl in Biol. Skr. 13 (4): 104. 1963.
Platytaenia lasiocarpa ssp. *thomsonii* var. *glabrior* (C.B.Clarke) Nasir in Nasir & Ali, (Eds.) Fl. W. Pakistan 20: 135. 1972.
NW Himalaya.

SESELI L., Sp. pl. 259. 1753.

Seseli alboalatum (Haines) Pimenov & Kljuykov in Feddes Repert. 113: 340. 2002.
Ligusticum alboalatum Haines in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 15: 314. 1920.
Bihar.

Seseli cyclolobum (Gilli) Pimenov & Sdobnina in Bot. Žurn. (Moscow & Leningrad) 60: 1120. 1975; P.K. Mukh. & Constance, Umbell. India 166. 1993.
Libanotis cycloloba Gilli in Feddes Repert. Spec. Nov. Regni Veg. 61: 196. 1959.
Seseli sibiricum sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 693. 1879 non *Athamanta sibirica* L., 1753.
W Himalaya.

Seseli diffusum (Roxb. ex Sm.) Santapau & Wagh in Bull. Bot. Surv. India 5: 108. 1963.
Ligusticum diffusum Roxb. ex Sm. in Rees, Cycl. 21: 11. 1812.
Cnidium diffusum (Roxb. ex Sm.) DC., Prodr. 4: 153. 1830.
Seseli indicum Wight & Arn., Prodr. fl. Ind. orient. 371. 1834; C.B. Clarke in Hook.f., Fl. Brit. India 2: 693. 1879.
Plains of India.

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Athamanta libanotis L., Sp. pl. 244. 1753.
NW Himalaya.

Seseli mucronatum (Schrenk) Pimenov & Sdobnina in Bjull. Moskovsk. Obšč. Isp. Prir., Otd. Biol. 78(4): 139. 1973; Pimenov in Kew Bull. 51: 414. 1995.
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Ligusticum thomsonii C. B. Clarke in Hook. f., Fl. Brit. India 2: 698. 1879.
Ligusticum thomsonii var. *evolutior* C. B. Clarke in Hook.f., Fl. Brit. India 2: 698. 1879.
Pleurospermum longicaule H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 117. 1929.
NW Himalaya.

Seseli roylei (Lindl.) Pimenov & Kljuykov in Feddes Repert. 113: 339. 2002.
Archangelica roylei Lindl. in Royle, Ill. bot. Himal. Mts. 232. 1835.
Ligusticum marginatum C.B. Clarke in Hook. f., Fl. Brit. India 2: 698. 1879.
Angelica roylei (Lindl.) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 44. 1991.
Himalayas.

Seseli trilobum (Edgew.) C.B. Clarke in Hook. f., Fl. Brit. India 2: 694. 1879.
Scaphespermum trilobum Edgew. in Trans. Linn. Soc. London 20: 58. 1851.
NW Himalaya.
Note: Razi in Rec. Bot. Surv. India 18(1): 49. 1959 had included *Seseli sandbergiae* Fedde ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 309. 1930 & *Seseli wawrae* H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 315. 1930 from 'India'; however, it has been found that they occur in China.'

SINOCARUM H. Wolff ex R.H. Shan & F.T. Pu in Acta Phytotax. Sin. 18: 374. 1980; Farille et al. in Candollea 40: 561. 1985.

Sinocarum acronemifolium (C.B. Clarke) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 43. 1991.
Pimpinella acronemifolia C.B. Clarke in Hook.f., Fl. Brit. India 2: 686. 1879.
Acronema acronemifolia (C.B. Clarke) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 322. 1927.
E Himalaya.

Sinocarum clarkeanum P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 42. 1991.
E Himalaya.

Sinocarum coloratum (Diels) H. Wolff ex R.H. Shan & F.T. Pu, Fl. reipub. popul. sin. 55 (2): 33. 1985; P.K. Mukh. & Constance, Umbell. India 132. 1993.
Carum coloratum Diels in Notes Roy. Bot. Gard. Edinburgh 25: 287. 1912.
E Himalaya, Nagaland.

Sinocarum longii M.F. Watson in Edinburgh J. Bot. 53: 138, f. 4 A-C. 1996.
E Himalaya.

Sinocarum normanianum (Cauwet & Farille) Farille in Candollea 40: 561. 1985.
Similisinocarum normanianum Cauwet & Farille in Bull. Soc. Bot. France 131: 68. 1984.
C to E Himalaya.

Sinocarum pulchellum C. Norman ex M.F. Watson in Edinburgh J. Bot. 53: 143, f. 5 A-D. 1996.
C to E Himalaya.

Sinocarum sikkimense (P.K. Mukh.) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 43. 1991.
Acronema sikkimense P.K. Mukh. in Cauwet & Carb., Les Ombelliferes Contrib. Pluridisc. Syst. (2e Sympos. Int.) 52. (1977) 1978.
C to E Himalaya.

Sinocarum wolffianum (Fedde) P.K. Mukh. & Constance in Edinburgh J. Bot. 48: 42. 1991.
Acronema wolffianum Fedde in Repert. Spec. Nov. Regni Veg. 27: 328. 1930.
Pimpinella feddeana M. Hiroe, Umbell. World 832. 1979.
E Himalaya.

Sinocarum woodii M.F. Watson in Edinburgh J. Bot. 53: 143. 1996.
C to E Himalaya.

SIUM L., Sp. pl. 251. 1753.

Sium latijugum C.B. Clarke in Hook.f., Fl. Brit. India 2: 683. 1879.
NW Himalaya.

TONGOLOA H. Wolff in Notizbl. Bot. Gart. Berlin-Dahlem 9: 279. 1925.

Tongoloa gracilis H. Wolff in Notizbl. Bot. Gart. Berlin-Dahlem 9: 279. 1925; P.K. Mukh. & Constance, Umbell. India 135. 1993.
E Himalaya ?, NE India.

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Carum loloense Franch. in Bull. Soc. Philom. Paris 6 : 125. 1894.
C to E Himalaya.

TORDYLIOPSIS DC., Prodr. 4: 199. 1830.

Tordyliopsis brunonis DC., Prodr. 4: 199. 1830.
Heracleum brunonis (DC.) C.B. Clarke in Hook. f., Fl. Brit. India 2: 713. 1879.
Himalayas.

TORILIS Adans., Fam. pl. 2: 99, 612. 1763.

Torilis arvensis (Huds.) Link, Enum. hort. berol. alt. 1: 265. 1821; Hamal & A.K. Koul in J. Bombay Nat. Hist. Soc. 80: 244. 1983.
Caucalis arvensis Huds., Fl. angl. 98. 1762.
NW Himalaya.

Torilis japonica (Houtt.) DC., Prodr. 4: 219. 1830; R.K. Gupta, Fl. nainital. 148. 1968.
Caucalis japonica Houtt., Nat. hist. pt. 8: 42. 1777.
Tordylium anthriscus L., Sp. pl. 240. 1753.
Caucalis anthriscus (L.) Huds., Fl. angl. 99. 1762 non *Torilis anthriscus* Gaertn., 1788; C.B. Clarke in Hook. f., Fl. Brit. India 2: 718. 1879.
Caucalis elata D. Don, Prodr. fl. nepal. 183. 1825.
Torilis elata (D. Don) DC., Prodr. 4: 220. 1830.
Himalayas, NE India.

Torilis leptophylla (L.) Rchb. f. in Rchb., Icon. fl. germ. helv. 21: 83, t. 169. 1866.
Caucalis leptophylla L., Sp. pl. 242. 1753; C.B. Clarke in Hook. f., Fl. Brit. India 2: 719. 1879.
NW Himalaya.

Torilis nodosa (L.) Gaertn., Fruct. sem. pl. 1: 82. 1788; Javeid in Indian Forester 99: 630. 1973.
Tordylium nodosum L., Sp. pl. 240. 1753.
NW Himalaya.

Torilis stocksiana (Boiss.) Drude in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 156. 1898; Hamal & A.K. Koul in J. Bombay Nat. Hist. Soc. 80: 245. 1983.
Caucalis stocksiana Boiss., Diagn. pl. orient. ser. 2, 6: 89. 1859.
NW Himalaya.

TRACHYDIUM Lindl. in Royle, Ill. bot. Himal. Mts. 232. 1835.

Trachydium roylei Lindl. in Royle, Ill. bot. Himal. Mts. 232. 1835; C.B. Clarke in Hook.f., Fl. Brit. India 2: 672. 1879.
C to NW Himalaya.

Trachydium subnudum C.B. Clarke ex H. Wolff in Repert. Spec. Nov. Regni Veg. 27: 125. 1929.
Trachydium lamondianum Parille & S.B. Malla in Candollea 40: 533. 1985.
E Himalaya, NE India.

TRACHYSPERMUM Link, Enum. hort. berol. alt. 1: 267. 1821, nom. cons.

Trachyspermum ammi (L.) Sprague in Bull. Misc. Inform. 1929: 228. 1929.
Sison ammi L., Sp. pl. 252. 1753.
Ammi copticum L., Mant. pl. 1: 56. 1767.

Carum copticum (L.) Hiern in Oliv., Fl. trop. Afr. 3: 12. 1871; C.B. Clarke in Hook.f., Fl. Brit. India 2: 682. 1879.
Cultivated.

Trachyspermum anethifolium (D. Don) H. Wolff in Engl., Pflanzenr. IV. 228 (Heft 90): 90. 1927.
Pimpinella anethifolia D. Don, Prodr. fl. nepal. 184. 1825.
Carum anethifolium (D. Don) C.B. Clarke in Hook.f., Fl. Brit. India 2: 683. 1879.
C to W Himalaya.

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NW Himalaya.

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Carum falconeri C.B. Clarke in Hook.f., Fl. Brit. India 2: 683. 1879.
W Himalaya.

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NW Himalaya.

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SW Ghats.

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C to W Himalaya.

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C Himalaya.

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C Himalaya.

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NW Himalaya.
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E & NE to Peninsular India.

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E Himalaya, NE India.

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Andaman Islands, E Himalaya, NE India.

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W Himalaya.

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Andaman Islands, drier parts of India.

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NE India.

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E to S India.

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NE India.

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E Himalaya, NE India.

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Andaman Islands.

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Andaman & Nicobar Islands, E NE & Peninsular India.

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C to E Himalaya, E NE & Peninsular India.

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Andaman & Nicobar Islands, Peninsular India.

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NE India.
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Assam.

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Throughout India.

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NW & Peninsular India.

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Maharashtra.

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E & S India.

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Cultivated.

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E & S India.

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var. **inermis**.
E to Peninsular India.

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E India.

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Throughout Himalayas & drier parts of India.

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E NE & S India.

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Tamilnadu.

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Throughout drier parts of India.

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S India.

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E India.

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Vinca pusilla Murray in Comm. Act. Goett. 3: 66, t. 2, f.1. 1773; Hook.f., Fl. Brit. India 3: 640. 1882.
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Throughout India.

Catharanthus roseus (L.) G. Don, Gen. hist. 4: 95. 1837; Santapau in Rec. Bot. Surv. India 16 (1): 147. 1967 (3rd rev. ed.).
Vinca rosea L., Syst. nat. ed. 10. 2: 944. 1759; Hook.f., Fl. Brit. India 3: 640. 1882.
Lochnera rosea (L.) Rchb., Consp. regn. veg. 134. 1828.
Cultivated & also runs wild.

CERBERA L., Sp. pl. 208. 1753.

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Salt swamps of Andaman & Nicobar Islands, E & W coasts of India.

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Andaman & Nicobar Islands, S India.

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W Ghats (Karnataka).

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Andaman & Nicobar Islands.

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Assam.

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Echites macrophylla Roxb., Fl. ind. (Ed. Carey) 2: 13. 1832 non Kunth, 1819 (incl. type of *Echites fragrans* Moon, 1824).
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Moist forests throughout India including Andaman Islands.

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E Himalaya, NE India.

Chonemorpha pedicellata R.S. Rao in J. Indian Bot. Soc. 32: 44. 1953 & in J. Bombay Nat. Hist. Soc. 52: 191. 1954.
NW India.

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E Himalaya, NE India, Upper Gangetic Plains.

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Andhra Pradesh (N Circars) ?

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Holarrhena floribunda (G. Don) T. Durand & Schinz, Études fl. Congo 1: 190. 1896; S.K. & S. Basu in Bull. Bot. Surv. India 21: 186. (1979) 1981.
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Cultivated (Indian Botanic Garden, Howrah).

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Chonemorpha antidysenterica (Roth) G. Don, Gen. hist. 4: 76. 1837; Wight, Icon. pl. Ind. orient. t. 439. 1841.
Holarrhena codaga G. Don, Gen. hist. 4: 78. 1837; Wight, Icon. pl. Ind. orient. t. 1297. 1848.
Holarrhena antidysenterica Wall. ex A.DC. in DC., Prodr. (Ed. A.DC.) 8: 413. 1844; Hook.f., Fl. Brit. India 3: 644. 1882.
Holarrhena malaccensis Wight, Icon. pl. Ind. orient. t. 1298. 1848.
Throughout India including Himalayas.

HUNTERIA Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 531. 1824.

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Cameraria zeylanica Retz., Observ. bot. 4: 24. 1786.
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Hunteria corymbosa Roxb., Fl. ind. (Ed. Carey) 1: 695. 1832; Wight, Icon. pl. Ind. orient. t. 428. 1841; Hook.f., Fl. Brit. India 3: 637. 1882.
Hunteria roxburghiana Wight, Icon. pl. Ind. orient. t. 1294. 1848.
Hunteria corymbosa var. *roxburghiana* (Wight) Trimen, Handb. fl. Ceylon 3: 128. 1895.
Hunteria zeylanica var. *salicifolia* (Wall. ex A. DC.) Pichon in Bol. Soc. Brot. ser. 2, 27: 111. 1953.
Andaman & Nicobar Islands, S Indian coast & Ghats.

ICHNOCARPUS R. Br., Asclepiadeae 50. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 61. 1811, nom. cons.
MICRECHITES Miq., Fl. Ned. Ind. 2: 456. 1857

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Micrechites andamanica M. Gangop. & Chakrab. in J. Econ. Taxon. Bot. 16: 42, f.2, A-E. 1992.
Andaman & Nicobar Islands, E India.

Ichnocarpus frutescens (L.) R. Br. in W.T. Aiton, Hortus kew. ed. 2.2: 69. 1811; Hook.f., Fl. brit. India 3: 669. 1882.
Apocynum frutescens L., Sp. pl. 213. 1753.
Echites malabarica Lam., Dict. encycl. 2: 342. 1790.
Quiriveli frustescens (L.) R. Br. in Mem. Wern. Nat. Hist. Soc. 1: 61. 1811.
Chonemorpha malabarica (Lam.) G. Don, Gen. hist. 4: 76. 1837; Hook.f., Fl. Brit. India 3: 662. 1882.
var. **frutescens.**
Throughout hotter regions of India.

var. **parvifolia** Hook.f., Fl. Brit. India 3: 670. 1882.
Tamilnadu.

Ichnocarpus parkinsonii (M. Gangop. & Chakrab.) Rasingam et al. in J. Econ. Taxon. Bot. 32: 550. 2008.
Micrechites parkinsonii M. Gangop. & Chakrab. in J. Econ. Taxon. Bot. 16: 44, 3, A-E. 1922.
Andaman Islands.

#Ichnocarpus polyanthus (Blume) P.I. Forst. in Austral. Syst. bot. 5: 544. 1992.
Tabernaemontana polyantha Blume, Bijdr. 1029. 1826
Micrechites polyantha (Blume) Miq., Fl. Ned. Ind. 2: 457. 1857; Hook.f., Fl. Brit. India 3: 671. 1882.
Ichnocarpus pubiflorus Hook.f., Fl. Brit. India 3: 670. 1882.
Micrechites elliptica T. Yamaz. in Jap. Bot. 46: 49. 1971.
Andaman Islands, C to E Himalaya, NE India.

Ichnocarpus sabitae (R.N. De & V. Naray.) Rasingam et. al. in J. Econ. Taxon. Bot. 32: 550. 2008.
Micrechites sabitae R.N. De & V. Naray. in Indian Forester 66: 332. 1940.
var. **sabitae.**
Meghalaya.

var. **laxiflorus** (R.N. De & V. Naray.) Rasingam et al. in J. Econ. Taxon. Bot. 32: 550. 2008 ('laxiflora').
Micrechites sabitae var. *laxiflora* R.N. De & V. Naray. in Indian Forester 66: 333. 1940.
Meghalaya.

Ichnocarpus volubilis (Lour.) Merr. in*Philipp.* J. Sci. 21: 506. 1922; Vasudeva Rao in Bull. Bot. Surv. India 24: 185. (1982) 1983.
Gardenia volubilis Lour, Fl. cochinch. 506. 1790.
Echites affinis Roem. & Schult., Syst. Veg. 4: 393. 1819.
Ichnocarpus ovatifolius A. DC. in DC., Prodr. (Ed. A. DC.) 8: 435. 1844; Hook.f., Fl. Brit. India 3: 670. 1882.
Ichnocarpus affinis (Roem & Schult.) Benth. in Benth. & Hook.f., Gen. pl. 2: 717. 1876; N.P. Balakr., Fl. Jowai 2: 309. 1983.
Ichnocarpus frutescens var. *ovatifolia* (A. DC.) Deb, Fl. Tripura 2: 18. 1983.
Andaman & Nicobar Islands, E to NE India. Himalayas.

KAMETTIA Kostel., Allg. med.- pharm. Fl. 3: 1062. 1834.
ELLERTONIA Wight, Icon. pl. Ind. orient. t. 1295. 1848.

Kamettia caryophyllata (Roxb.) Nicolson & Suresh in Taxon 35: 354. 1986.
Echites caryophyllata Roxb., Hort. bengal. 20. 1814 ('coryophyllata').
Kamettia malabarica Kostel., Allg. med.-pharm. Fl. 3: 1062. 1834 (incl. type of *Echites caryophyllata* Roxb., 1814).
Aganosma roxburghii G. Don, Gen. hist. 4: 77. 1837.
Ellertonia rheedei Wight, Icon. pl. Ind. orient. t. 1295. 1848 ('rheedii') nom. illeg. (incl. type of *Echites caryophyllata* Roxb., 1814); Hook.f., Fl. Brit. India 3: 641. 1882.
Peninsular India.

KIBATALIA G. Don, Gen. hist. 4: 70, 86. 1837.
PARAVALLARIS Pierre in Bull. Mens. Soc. Linn. Paris ser. 2, 1: 30. 1898.

Kibatalia macrophylla (Pierre ex Hua) Woodson in Philipp. J. Sci. 60: 214. 1936.
Paravallaris macrophylla Pierre ex Hua in Bull. Soc. Bot. France 51: 273. 1904.
Trachelaspermum anceps Dunn & R.H. Williams in Bull. Misc. Inform. 1920: 343. 1920.
Vallaris anceps (Dunn & R.H. Williams) C.E.C. Fisch. in Bull. Misc. Inform. 1931: 28. 1931.
Kibatalia anceps (Dunn & R.H. Williams) Woodson in Sunyatsenia 3: 101. 1936.
Kumaon Himalaya.

KOPSIA Blume, Catalogus 12. 1823, nom. cons.

Kopsia arborea Blume, Catalogus 13. 1823; Markgr. in Blumea 20: 419. 1972; Goel & M.P. Sharma in High. Pl. Ind. Subcont. 1: 8. 1990.
Andaman & Nicobar Islands, Kerala.

Kopsia fruticosa (Ker Gawl.) A. DC. in DC., Prodr. (Ed. A. DC.) 8: 352. 1844; Hook.f., Fl. Brit. India 3: 639. 1882; Deb, Fl. Tripura 2: 18. 1983.
Cerbera fruticosa Ker Gawl. in Bot. Reg. (Ed. Ker Gawl.) 5: t. 391. 1820.
Cultivated.

Kopsia scortechinii King & Gamble in J. Asiat. Soc. Bengal Pt. 2, Nat. Hist. 74: 431. 1907; Goel & M.P. Sharma in High. Pl. Ind. Subcont. 1: 7, ff. A-G. 1990.
Andaman Islands.

MELODINUS J.R. & G. Forst., Char. gen. pl. 37. 1776.

Melodinus khasianus Hook.f., Fl. Brit. India 3: 629. 1882.
NE India.

Melodinus monogynus Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 56. 1824; Hook.f., Fl. Brit. India 3: 629. 1882.
E Himalaya, NE India.

NERIUM L., Sp. pl. 209. 1753.

Nerium oleander L., Sp. pl. 209. 1753; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 56. 1988.
Nerium indicum Mill., Gard. dict. ed. 8, no.2. 1768.
Nerium odorum Sol. ex Aiton, Hort. kew. ed. 1. 1: 297. 1789; Hook.f., Fl. Brit. India 3: 655. 1882.
Throughout India including Andaman & Nicobar Islands.

OCHROSIA Juss., Gen. pl. 144.1789.
NEISOSPERMA Raf., Sylva tellur. 162. 1838.

Ochrosia oppositifolia (Lam.) K. Schum. in Engl. & Prantl., Nat. Pflanzenfam. IV, 2: 156. 1895; Hendrian in Blumea 49: 113. 2004.
Cerbera oppositifolia Lam., Encycl. 1: 62. 1783.
Ochrosia borbonica sensu Hook.f., Fl. Brit. India 3: 638. 1882 non J. F. Gmel., 1791.
Neisosperma oppositifolium (Lam.) Fosberg & Sachet in Micronesica 8: 48. 1972; Sivadas, B. Narayanan & M. Kumar in Indian Forester 113: 750, f. 2. 1987.
Tidal forests of Andaman Islands & Lakshadweep Islands.

PARAMERIA Benth. in Benth. & Hook.f., Gen. pl. 2: 715. 1876.

Parameria laevigata (Juss.) Moldenke in Revista Sudamer. Bot. 6 (5 & 6): 176. 1940; Backer & Bakh. f., Fl. Java 2: 233. 1965; M. Gangop. & Chakrab. in J. Econ. Taxon. Bot. 16: 48. 1992.
Aegiphila laevigata Juss. in Ann. Mus. Natl. Hist. Nat. 7: 76. 1806.
Parsonsia barbata Blume, Bijdr. 1042. 1826.
Echites glandulifera A. DC. in DC., Prodr. (Ed. A.DC.) 8: 443. 1844; Wight, Icon. pl. Ind. orient. t. 1307. 1848.
Parameria glandulifera (DC.) Benth. in Benth. & Hook.f., Gen. pl. 2: 715. 1876; Hook.f., Fl. Brit. India 3: 660. 1882.
Parameria barbata (Blume) K. Schum. in Engl. & Prantl, Nat. Pflanzenfam IV, 2: 155. 1895.
Andaman Islands.

Parameria pedunculosa Benth. in Benth. & Hook.f., Gen. pl. 2: 715. 1876; Kanjilal et al., Fl. Assam 3: 262. 1939.
NE India.

Parameria polyneura Hook.f., Fl. Brit. India 3: 660. 1882; Kanjilal et al., Fl. Assam 3: 262. 1939.
NE India.

PARSONSIA R. Br., Asclepiadeae 53. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 64. 1811, nom. cons.

Parsonsia alboflavescens (Dennst.) Mabb. in Taxon 26: 532. 1977.
Periploca alboflavescens Dennst., Schlüssel Hortus malab. 12, 23, 35. 1818.
Echites laevigata Moon, Cat. pl. Ceylon 20. 1824.
Parsonsia spiralis Wall. ex G. Don, Gen. hist. 4: 80. 1837; Hook.f., Fl. Brit. India 3: 650. 1882.
Periploca spiralis Wall. ex G. Don, Gen. hist. 4: 80. 1837.
Aganosma laevigata (Moon) J. Graham, Cat. pl. Bombay 113. 1839.
Heligme rheedei Wight, Icon. pl. Ind. orient. t. 1303. 1848.
Parsonsia laevigata (Moon) Alston in Ann. Roy. Bot. Gard. (Peradeniya) 11: 203. 1929.
Parsonsia helicandra Hook. & Arn., Bot. Beechey Voy. 197. 1837.
var. **alboflavescens.**
Andaman & Nicobar Islands, E NE & Peninsular India.

Note: M.R. & S.M. Almeida provided the following name:
Parsonsia inodora (Lour.) M.R. & S.M. Almeida in J. Bombay Nat. Hist. Soc. 90: 428. (1983) 1984 based on *Cynanchum inodorum* Lour., Fl. cochinch. 166. 1790; however, the latter has been treated under *Gymnema inodorum* (Lour.) Decne. in DC., Prodr. (Ed. A. DC.) by P.T. Li, M.G. Gilbert & W.D. Steven in Fl. China – Asclepiadaceae, *online*.

var. **penangiana** (King & Gamble) M. Gangop. & Chakrab. in J. Econ. Taxon. Bot. 16: 50. 1992.
Parsonsia penangiana King & Gamble in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 74 (2): 458. 1907.
Nicobar Islands.

PLUMERIA L., Sp. pl. 209. 1753.

Plumeria alba L., Sp. pl. 210. 1753; Chandrab. & N.C. Nair, Fl. Coimbatore 174. 1988.
Cultivated.

Plumeria rubra L., Sp. pl. 209. 1753; Maheshw., Fl. Delhi 214. 1963.
forma **rubra**.
Cultivated.

forma **acuminata** (W.T. Aiton) Woodson in Ann. Missouri Bot. Gard. 25: 211. 1938; T.N. Srivast., Fl. gorakhpur. 196. 1976.
Plumeria acuminata W.T. Aiton, Hortus kew. ed. 2. 2: 70. 1811.

Plumeria acutifolia Poir. in Lam., Encycl. suppl. 2: 667. 1812; Wight, Icon. pl. Ind. orient. t. 471. 1841; Hook.f., Fl. Brit. India 3: 641. 1882.
Plumeria rubra forma *acutifolia* (Poir.) Woodson in Ann. Missouri Bot. Gard. 25: 211. 1938.
Plumeria rubra var. *acuminata* (W.T. Aiton) R.S. Rao & Balamani in J. Indian Bot. Soc. 63: 227. 1984.
Cultivated in many parts of India.

POTTSIA Hook. & Arn., Bot. Beechey Voy. 198. 1837.

Pottsia laxiflora (Blume) Kuntze, Revis. gen. pl. 2: 416. 1891; Backer & Bakh. f., Fl. Java 2: 243. 1965.
Vallaris laxiflora Blume, Bijdr. 1043. 1827.
Pottsia cantonensis Hook. & Arn., Bot. Beechey Voy. 199, t. 43. 1837; Hook.f., Fl. Brit. India 3: 652. 1882.
NE India.

RAUVOLFIA L., Sp. pl. 208. 1753.

Rauvolfia beddomei Hook.f., Fl. Brit. India 3: 634. 1882.
Tabernaemontana verticillata Bedd., Fl. sylv. S. India t. 20/3. 1869 non *Rauvolfia verticillata* Baill., 1888.
Rauvolfia hookeri S. R. Sriniv. & Chithra in A. N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 78. 1987 syn. nov.
Kerala, Tamilnadu.

Rauvolfia chinensis (Hance) Hemsl. in J. Linn. Soc., Bot. 26: 95. 1889; Kanjilal et al., Fl. Assam 3: 252. 1939.
Ophioxylon chinensis Hance in J. Bot. 3: 380. 1865.
NE India.

Rauvolfia micrantha Hook.f., Fl. Brit. India 3: 633. 1882.
Kerala.

Rauvolfia serpentina (L.) Benth. ex Kurz, Forest fl. Burma 2: 171. 1877; Hook.f., Fl. Brit. India 3: 632. 1882.
Ophioxylon serpentinum L., Sp. pl. 1043. 1753; Wight, Icon. pl. Ind. orient. t. 849. 1844-1845.
Throughout tropical India.

Rauvolfia sumatrana Jack in Malayan Misc. 1(5): 22. 1820; N.C. Nair in Geobios 5: 179, f. 1. 1978.
Andaman & Nicobar Islands.

Rauvolfia tetraphylla L., Sp. pl. 208. 1753; A. S. Rao in Ann. Missouri Bot. Gard. 43: 283. 1956.
Rauvolfia canescens L., Sp. pl. ed. 2. 303. 1762.
Cultivated & naturalised.

Rauvolfia verticillata (Lour.) Baill. in Bull. Mens. Soc. Linn. Paris 1: 768. 1888; Markgr. in Blumea 30: 160. 1984.
Dissolena verticillata Lour., Fl. cochinch. 1: 137. 1790.
Tabernaemontana densiflora Wall. in Edwards' Bot. Reg. (Ed. Lindl.) 15: t. 1273, p.p. 1829.
Ophioxylon zeylanicum Wight, Icon. pl. Ind. orient. t. 1291. 1848.
Ophioxylon neilgherrense Wight, Icon. pl. Ind. orient. t. 1292. 1848.
Rauvolfia densiflora (Wall.) Benth. [in Benth. & Hook.f., Gen. pl. 2: 697. 1876] ex Hook.f., Fl. Brit. India 3: 633. 1882.
Rauvolfia decurva Hook.f., Fl. Brit. India 3: 633. 1882.
var. **verticillata**.
NE & Peninsular India.

var. **macrophylla** (Hook.f.) Karthik. & Moorthy comb. nov.
Rauvolfia densiflora var. ? *macrophylla* Hook.f., Fl. Brit. India 3: 633. 1882.
NE India.

RHAZYA Decne. in Ann. Sci. Nat. Bot. ser. 2, 4: 80. 1835.

Rhazya stricta Decne. in Ann. Sci. Nat. Bot. ser. 2, 4: 81. 1835; Hook.f., Fl. Brit. India 3: 640. 1882; Santapau & A. N. Henry, Dict. fl. pl. India 145. 1973.
Punjab.

STROPHANTHUS DC. in Bull. Sci. Soc. Philom. Paris 3: 122. 1802.
ROUPELLIA Wall. & Hook. ex Benth. in Curtis, Bot. Mag. (Ed. Hook.) 75: t. 4466. 1849.

Strophanthus gratus (Hook.) Baill., Hist. pl. 10: 171. 1889; H. Huber in Hutch. & Dalziel, Fl. W. trop. Afr. (ed.2., Ed. Hepper) 2: 70. 1963.
Roupellia grata Hook. in Curtis, Bot. Mag. (Ed. Hook.) 75: t. 4466. 1849; Prain, Bengal pl. 2: 502. 1963 (Repr.).
Strophanthus choprae M.R. Almeida, Fl. Maharashtra 3A: 216. 2001 nom. superfl.
Frequently planted.

Strophanthus wallichii A. DC. in DC., Prodr. (Ed. A.DC.) 8: 418. 1844; Hook.f., Fl. Brit. India 3: 655. 1882; M. Gangop. & Chakrab. in J. Econ. Taxon. Bot. 16: 54. 1992.
Andaman & Nicobar Islands, C E NE & S India.

Strophanthus wightianus Wight, Icon. pl. Ind. orient. t. 1301. 1848; Hook.f., Fl. Brit. India 3: 656. 1882.
NE & S India.

TABERNAEMONTANA L., Sp. pl. 210. 1753.
PAGIANTHA Markgr. in Notizbl. Bot. Gart. Berlin-Dahlem 12: 546. 1935.
TESTUDIPES Markgr. in Notizbl. Bot. Gart. Berlin-Dahlem 12: 550. 1935.

Tabernaemontana dichotoma Roxb., Fl. ind. (Ed. Carey) 2: 21. 1832; Hook.f., Fl. Brit. India 3: 645. 1882.
Rejoua dichotoma (Roxb.) Gamble, Fl. Madras 812. 1923 (2: 571. 1967, Repr.).
Pagiantha dichotoma (Roxb.) Markgr. in Notizbl. Bot. Gart. Berlin-Dahlem 12: 546. 1935; H. Huber in Dassan. & Fosberg , Rev. handb. fl. Ceylon 4: 39. 1983.
W Ghats.

Tabernaemontana divaricata (L.) R. Br. ex Roem. & Schult., Syst. veg. 4: 427. 1819; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 58. 1988.
Nerium divaricatum L., Sp. pl. 209. 1753.
Nerium coronarium Jacq., Collectanea 1: 138. 1786.
Tabernaemontana coronaria (Jacq.) Willd., Enum. pl. 275. 1809; Wight, Icon. pl. Ind. orient. t. 477. 1841; Hook.f., Fl. Brit. India 3: 646. 1882.
Ervatamia coronaria (Jacq.) Stapf in Oliv., Fl. trop. Afr. (Ed.Dyer) 4: 127. 1902.
Ervatamia divaricata (L.) Burkill in Rec. Bot. Surv. India 10: 320. 1925.
Cultivated.

Tabernaemontana gamblei Subr. & A.N. Henry in Bull. Bot. Surv. India 12: 1. 1970.
Ervatamia caudata Gamble in Bull. Misc. Inform. 1921: 310. 1921 & Fl. Madras 813. 1923 (2: 571. 1967, Repr.) non *Tabernaemontana caudata* Merr., 1909.
Tamilnadu.

Tabernaemontana heyneana Wall. in Edwards' Bot. Reg. (Ed. Lindl.) 15:t.1273. 1829; Hook.f., Fl. Brit. India 3: 646. 1882.
Tabernaemontana alternifolia L., Sp. pl. 211. 1753; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 57. 1988.
Tabernaemontana crispa Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 24. 1824; Hook.f., Fl. Brit. India 3: 648. 1882.
Tabernaemontana nicobarica Liebm. in Linnaea 28: 363. 1856.

Tabernaemontana crispa var. *nicobarica* (Liebm.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 45: 160. 1876.
Ervatamia heyneana (Wall.) T. Cooke, Fl. Bombay 2: 134. 1904 (2: 196. 1967, Repr.).
Ervatamia alternifolia (L.) S.M. Almeida in J. Econ. Taxon. Bot. addl. ser. 8(1): 252. 1990.
Andaman & Nicobar Islands, Peninsular India.

Note: D.J. Middleton & Leeuwenb. – in Taxon 47: 481. 1998 – propose that *Tabernaemontana heyneana* may be conserved with which *Tabernaemontana alternifolia* and *Tabernaemontana crispa* may be merged.

Tabernaemontana ophiorhizoides Kurz, Forest fl. Burma 2: 27. 1877; Hook.f., Fl. Brit. India 3: 649. 1882; Chatterji & Raizada in Indian Forester 74: 391. 1948.
Ervatamia ophiorhizoides (Kurz) Lace, List, tr. shr. cl. Burma 91. 1912.
NE India.

Tabernaemontana recurva Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 26. 1824; Hook.f., Fl. Brit. India 3: 648. 1882.
Testudipes recurva (Roxb.) Markgr. in Notizbl. Bot. Gart. Berlin-Dahlem 12: 547. 1935; Santapau & A.N. Henry, Dict. fl. pl. India 169.1973.
Assam Hills.

THEVETIA L., Opera var. (Syst. nat. ed. 8) 212. 1758, nom. cons.
CASCABELA Raf., Sylva tellur. 162. 1838.

Thevetia peruviana (Pers.) Merr. in Philipp. J. Sci. 9: 130. 1914.
Cerbera thevetia L., Sp. pl. 209. 1753.
Cerbera peruviana Pers., Syn. pl. 1: 267. 1805.
Thevetia neriifolia Juss. ex Steud., Nomencl. bot. ed. 2. 2: 680. 1841 ('nereifolia'); Prain, Bengal pl. 2: 495. 1963 (Repr.).
Cascabela thevetia (L.) Lippold in Feddes Repert. 91: 52. 1980.
Cultivated.

TRACHELOSPERMUM Lem., Jard. fleur. 1, t. 61. 1851.

 # Trachelospermum asiaticum (Siebold & Zucc.) Nakai in T. Mori, Enum. pl. Corea 293. 1922.
Malouetia asiatica Siebold & Zucc. in Abh. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. 4: 163. 1846.
Trachelospermum gracilipes Hook.f., Fl. Brit. India 3: 668. 1882.
NE India.

Trachelospermum assamense Woodson in Sunyatsenia 3: 80. 1936; Raizada in Indian Forester 68: 367. 1942.
NE India, W Himalaya.

Trachelospermum auritum C.K. Schneid. in Sarg., Pl. wilson 3: 341. 1916; Kanjilal et al., Fl. Assam 3: 272. 1939.
NE India.

Trachelospermum axillare Hook.f., Fl. Brit. India 3: 668. 1882.
Himalayas, NE India.

Trachelospermum cathayanum C.K. Schneid. in Sarg., Pl. wilson 3: 333. 1916; C.E.C. Fisch. in Bull. Misc. Inform. 1940: 159. 1940.
E Himalaya ?

Trachelospermum lucidum (D. Don) K. Schum. in Engl. & Prantl, Nat. Pflanzenfam. IV, 2: 173. 1895; R. Parker, Forest fl. Punjab 556. 1984 (3rd Repr.).
Alstonia lucida D. Don, Prodr. fl. nepal. 131. 1825.

Ichnocarpus fragrans A.DC. in DC., Prodr. (Ed.A.DC.) 8: 835. 1844.
Trachelospermum fragrans (A.DC.) Hook.f., Fl. Brit. India 3: 667. 1882.
var. **lucidum.**
NE India, Temperate & Subtropical Himalayas, Upper Gangetic Plains.

var. osmastonianum S. Biswas in Indian J. Forest. 8: 61, f. 1. 1985.
W Himalaya.

TRACHOMITUM Woodson in Ann. Missouri Bot. Gard. 17: 157. 1930.

Trachomitum venetum (L.) Woodson in Ann. Missouri Bot. Gard. 17: 158. 1930; Kachroo, Sapru & U. Dhar, Fl. Ladakh 112. 1977.
Apocynum venetum L., Sp. pl. 213. 1753; Hook.f., Fl. Brit. India 3: 657. 1882.
NW Himalaya.

URCEOLA Roxb. in Asiat. Res. 5: 169. 1799, nom. cons.
ECDYSANTHERA Hook. & Arn., Bot. Beechey Voy. 198. 1837.
PARABARIUM Pierre in Spire & A. Spire, Caoutchouc Indo-Chine 9. 1906.

Urceola lakhimpurensis (S.K. Srivast. & Mehrotra) Karthik. & Moorthy comb. nov.
Ecdysanthera lakhimpurensis S.K. Srivast. & Mehrotra in Candollea 41: 381, f.1. 1986.
Assam.

Urceola micrantha (Wall. ex G. Don) D. J. Middleton in Novon 4: 151. 1994.
Echites micrantha Wall. ex G. Don, Gen. hist. 4: 75. 1837.
Ecdysanthera micrantha A. DC. in DC., Prodr. (Ed. A. DC.) 8: 442. 1844; Hook.f., Fl. Brit. India 3: 662. 1882.
Parabarium micranthum (Wall. ex G.Don) Pierre in Spire, Contr. Apocyn. 38. 1905; Kanjilal et al., Fl. Assam 3: 266. 1939.
E Himalaya, NE India.

Urceola rosea (Hook. & Arn.) D. J. Middleton in Novon 4: 151. 1994.
Ecdysanthera rosea Hook. & Arn., Bot. Beechey Voy. 198. 1837; Raizada in Indian Forester 68: 364. 1942; H. B. Naithani in Indian Forester 105: 588. 1979.
E Himalaya, NE India.

Urceola tournieri (Pierre) D.J. Middleton in Novon 4: 151. 1994.
Ecdysanthera tournieri Pierre in Spire, Contr. Apocyn. 38. 1905.
Parabarium hookeri Pierre in Spire, Contr. Apocyn. 38. 1905; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 83. 1982.
Ecdysanthera micrantha sensu Hook.f., Fl. Brit. India 3: 662. 1882 p.p. non A. DC., 1844.
E Himalaya, E & NE India.

VALLARIS Burm. f., Fl. indica 51. 1768.

Vallaris assamica Griff., Not. pl. asiat. 4: 77. 1854; Hook.f., Fl. Brit. India 3: 652. 1882; Kanjilal et al., Fl. Assam 3: 257. 1939.
NE India.

Vallaris glabra (L.) Kuntze, Revis. gen. pl. 2: 417. 1891; Backer & Bakh. f., Fl. Java 2: 243. 1965.
Pergularia glabra L., Mant. pl. 1: 53. 1767.
Vallaris pergulana Burm.f., Fl. indica 81. 1768; Hook.f., Fl. Brit. India 3: 651. 1882.
W Bengal.

Vallaris solanacea (Roth) Kuntze, Revis. gen. pl. 1: 147. 1891; H. Huber in Dassan. & Fosberg (Eds.), Rev. handb. fl. Ceylon 4: 59. 1983.
Peltanthera solanacea Roth, Nov. pl. sp. 132. 1821.
Vallaris heynei Spreng., Syst. veg. ed. 16. 1: 635. (1824) 1825; Hook.f., Fl. Brit. India 3: 650. 1882.
Throughout India.

VINCA L., Sp. pl. 209. 1753.

Vinca major L., Sp. pl. 209. 1753; Raizada & H.O. Saxena, Fl. Mussoorie 1: 426. 1978.
Cultivated; also runs wild.

VOACANGA Thouars, Gen. nov. madagasc. 10. 1806.

Voacanga grandifolia (Miq.) Rolfe in J. Bot. 21: 202. 1883; K.C. Sahni & Bahadur in Indian J. Forest. 2: 33. 1979; T.S. Nayar in Bull. Bot. Surv. India 32: 167, f. A-I. (1990) 1992; C.N. Sunil & Sivar. in Rheedea 4: 109. 1994.
Pootia grandifolia Miq. in Verslagen Meded. Afd. Natuurk. Kon. Akad. Wetensch. 6: 193. 1857.
Orchipeda grandifolia Miq. in Ann. Mus. Bot. Lugduno- Batavum 1: 316. 1864.
var. **grandifolia.**
Cultivated (Indian Botanic Garden, Howrah).

var. **glabrifolia** Bakh. f. in Blumea 6: 386. 1950; K. C. Sahni & Bahadur in Indian J. Forest. 2: 35. 1979.
Goa.

WILLUGHBEIA Roxb., Pl. Coromandel 3: 77. 1820, nom. cons.

Willughbeia angustifolia (Miq.) Markgr. in Blumea 20: 414. 1972; D. J. Middleton in Blumea 38: 4. 1993.
Vahea angustifolia Miq., Fl. Ned. Ind. 2: 394. 1857.
Willughbeia rufescens Dyer ex Hook. f., Fl. Brit. India 3: 626. 1882.
Nicobar Islands.

Willughbeia edulis Roxb., Pl. Coromandel 3: 77, t. 280. 1820; Hook.f., Fl. Brit. India 3: 623. 1882; D.J. Middleton in Blumea 38: 11. 1993.
Andaman & Nicobar Islands, NE India.

Willughbeia tenuiflora Dyer ex Hook.f., Fl. Brit. India 3: 625. 1882; Chatterji & Raizada in Indian Forester 74: 391. 1948.
Nagaland
Note: According to D.J. Middleton (Blumea 38: 18. 1993) this species is distributed in Malay Peninsula and Sumatra.

WRIGHTIA R. Br., Asclepiadeae 762. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 73. 1811.

Wrightia arborea (Dennst.) Mabb. in Taxon 26: 533. 1977.
Periploca arborea Dennst., Schlüssel Hortus malab. 13, 23 & 25. 1818 & in Fortsetz. Allg. Teutsch. Gart.-Mag. 3: 32, 41 & 83. 1818.
Wrightia tomentosa Roem. & Schult., Syst. veg. 4: 414. 1819; Hook.f., Fl. Brit. India 3: 653. 1882.
Wrightia coalita Buch.-Ham. ex Dillwyn, Rev. Hortus malab. 40. 1839, nom. illeg. incl. type of *Periploca arborea* Dennst., 1818.
Wrightia wallichii A. DC. in DC., Prodr. (Ed. A. DC.) 8: 405. 1844; Wight, Icon. pl. Ind. orient. t. 1296. 1848.
Wrightia mollissima Wall., Pl. asiat. rar.2: 39, t. 146. 1831; Wight, Illus. Ind. Bot. t. 154. 1850.
Throughout tropical India.

Wrightia coccinea (Lodd.) Sims in Curtis, Bot. Mag. (Ed. Sims) 53: t. 2696. 1826; Hook.f., Fl. Brit. India 3: 654. 1882; Prain, Bengal pl. 2: 500. 1963 (Repr.).
Nerium coccineum Lodd., Bot. Cab. 9: t. 894. 1824.
Cultivated.

Wrightia dolichocarpa Bahadur & Bennet in Indian Forester 104: 32. 1978.
Goa, Gujarat.

Wrightia indica Ngan in Ann. Missouri Bot. Gard. 52: 140. 1965.
Tamilnadu (Nilgiris & Salem).

 # Wrightia pubescens R. Br. in Mem. Wern. Nat. Hist. Soc. 1: 73. 1811.
India.

Wrightia rheedii Kostel., Allg. med.-pharm. Fl. 3: 1060. 1834.
Ind. or.

Wrightia sikkimensis Gamble in Bull. Misc. Inform. 1908: 447. 1908.
E Himalaya, NE India.

Wrightia tinctoria (Roxb.) R. Br. in Mem. Wern. Nat. Hist. Soc. 1: 74. 1811; Wight, Icon. pl. Ind. orient. t. 444. 1841; Hook.f., Fl. Brit. India 3: 653. 1882; Ngan in Ann. Missouri Bot. Gard. 52: 142. 1965.
Nerium tinctorium Roxb. apud Dalr., Orient. Repert. 1: 39. 1791; Mabb. in Taxon 26: 524. 1977.
var. **tinctoria.**
Throughout tropical India.

var. **rothii** (G. Don) Hook.f., Fl. Brit. India 3: 653. 1882.
Wrightia rothii G. Don, Gen. hist. 4: 86. 1837; Wight, Icon. pl. Ind. orient. t. 1319. 1848.
C E N & Peninsular India.

Note: # These entries are after P.T. Li, Leeuwenb. & D.J. Middleton in C.Y. Wu & P.H. Raven (Eds.) Fl. China 16: 143 – 188. 1995 which is available online.

AQUIFOLIACEAE

ILEX L., Sp. pl. 125. 1753.

Ilex clarkei Loes., Monogr. Aquifol. 1: 274. 1901; Brandis, Indian Trees 155. 1906.
Manipur.

Ilex crenata Thunb. var. **thomsoni** (Hook.f.) Loes., Monogr. Aquifol. 1: 202, t. 4, f. 2C. 1901; H. Hara, Fl. E. Himal. 187. 1966.
Ilex thomsoni Hook.f., Fl. Brit. India 1: 602. 1875.
E Himalaya, NE India.

Ilex denticulata Wight, Ill. Ind. Bot. t. 142. 1831; Hook.f., Fl. Brit. India 1: 600. 1875.
SW Ghats (Karnataka, Tamilnadu).

Ilex dipyrena Wall. in Roxb., Fl. ind. (Eds. Carey & Wall.) 1: 473. 1820 & Pl. asiat. rar. 3: 68, t. 292. 1832; Hook.f., Fl. Brit. India 1: 599. 1875; Hu in J. Arnold Arbor. 30: 358. 1949.
Ilex monopyrena G.Watt ex Loes., Monogr. Aquifol. 1: 275. 1901.
Ilex dipyrena var. *connexiva* W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 10: 41. 1917.
NE India, Temperate Himalayas.

Ilex embelioides Hook.f., Fl. Brit. India 1: 601. 1875.
E Himalaya, NE India.

Ilex excelsa (Wall.) Hook.f., Fl. Brit. India 1: 603. 1875.
Cassine excelsa Wall. in Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 376. 1824.
Ilex doniana DC., Prodr. 2: 644. 1825; B.L. Gupta in Kanjilal, For. fl. Chakrata 105. 1956 (ed. 3, 2nd repr.).
forma **excelsa**.
NE India, Subtropical Himalayas.

forma **hypotricha** (Loes.) H. Hara in Univ. Mus. Univ. Tokyo Bull. 2: 70. 1971 & in H. Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 87. 1979.
Ilex hypotricha Loes., Monogr. Aquifol. 1: 130. 1901.
Ilex excelsa var. *hypotricha* (Loes.) Hu in J. Arnold Arbor. 30: 308. 1949.
C to E Himalaya.

Ilex fragilis Hook.f., Fl. Brit. India 1: 602. 1875.
forma **fragilis**.
C to E Himalaya, NE India.

forma **kingii** Loes., Monogr. Aquifol. 1: 493. 1901; Hu in J. Arnold Arbor. 30: 259. 1949.
E Himalaya.

Ilex gardneriana Wight, Icon. pl. Ind. orient. t. 1217. 1848; Hook.f., Fl. Brit. India 1: 603. 1875.
SW Ghats (Nilgiris).

Ilex georgei H. F. Comber in Notes Roy. Bot. Gard. Edinburgh 18: 50. 1933; Hu in J. Arnold Arbor. 30: 363. 1949.
Ilex pernyi Franch. var. *manipurensis* Loes., Monogr. Aquifol. 1: 279. 1901; Brandis, Indian trees 155. 1906.
Manipur.

Ilex hookeri King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 55: 266, t. 14. 1887; C.E.C.Fisch. in Bull. Misc. Inform. 1930: 239. 1930; Hu in J. Arnold Arbor. 31: 40. 1950; S. Andrews in Grierson & D.G. Long (Eds.), Fl. Bhutan 2(1): 109. 1991.
E Himalaya.

Ilex intricata Hook.f., Fl. Brit. India 1: 602. 1875.
C to E Himalaya.

Ilex khasiana Purkayastha in Indian Forester 64: 276. 1938.
NE India.

Ilex kingiana Cockerell in Torreya 13: 264. 1912; S. Andrews in Grierson & D.G. Long (Eds.), Fl. Bhutan 2(1): 108. 1991.
Ilex insignis Hook.f., Fl. Brit. India 1: 599. 1875, non Heer, 1869.
C to E Himalaya.

Ilex longecaudata H.F. Comber in Notes Roy. Bot. Gard. Edinburgh 18: 54. 1933; Hu in J. Arnold Arbor. 31: 245. 1950; Suk.Chandra in Bull. Bot. Surv. India 17: 199. (1975) 1978.
Nagaland.

Ilex malabarica Bedd., Fl. sylv. S. India t. 143. 1871; Hook.f., Fl. Brit. India 1: 600. 1875.
W Ghats.

Ilex nothofagifolia Kingdon-Ward in Gard. Chron. ser. 3, 81: 195. 1927 & 92: 232. 1932; Hu in J. Arnold Arbor. 31: 48. 1950.
Ilex intricata var. *oblata* W. E. Evans in Notes Roy. Bot. Gard. Edinburgh 13: 163. 1921; C.E.C. Fisch. in Bull. Misc. Inform. 1930: 239. 1930.
E Himalaya, NE India.

Ilex odorata Buch.-Ham. ex D. Don, Prodr. fl. nepal. 189. 1825; Hook.f., Fl. Brit. India 1: 599. 1875; H. Hara in H. Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 88. 1979.
Ilex theaefolia Hook.f., Fl. Brit. India 1: 601. 1875.
NE India, Temperate Himalayas.

Ilex pseudo-odorata Loes., Monogr. Aquifol. 1: 285. 1901; H. Hara in H. Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 88. 1979.
Ilex odorata sensu Hook.f., Fl. Brit. India 1: 599. 1875 p.p. non Buch.-Ham. ex D. Don, 1825.
Himalayas.

Ilex sikkimensis Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 44: 202. 1875; H. Hara in H. Hara & L.H.J. Williams, Enum. fl. pl. Nepal 2: 81. 1979.
C to E Himalaya, NE India.

Ilex tadiandamolensis Kesh.Murthy, Yogan. & K.V. Nair in Curr. Sci. 56: 270, ff. 1-4. 1987 ('tadiandamolense').
Karnataka.

Ilex triflora Blume, Bijdr. 1150. 1826; N. P. Balakr., Fl. Jowai 1: 128. 1981.
Ilex griffithii Hook.f., Fl. Brit. India 1: 601. 1875.
NE India.

Ilex umbellulata (Wall.) Loes., Monogr. Aquifol. 1: 99. 1901; H. Hara, Fl. E. Himal. 188. 1966.
Ehretia umbellulata Wall.in Roxb., Fl. ind. (Eds. Carey & Wall.) 2: 344. 1824.
Ilex godajam Colebr. ex Hook.f., Fl. Brit. India 1: 604. 1875.
Ilex sulcata Hook.f., Fl. Brit. India 1: 604. 1875; Kanjlal et al., Fl. Assam 1 (2): 256. 1936.
Andaman Islands, E Himalaya, NE India.

Ilex venulosa Hook.f., Fl. Brit. India 1: 602. 1875.
var. venulosa.
Meghalaya.

var. **simpliciformis** Hu in J. Arnold Arbor. 31: 217. 1950.
Meghalaya.

Ilex walkeri Wight & Gardner ex Thwaites, Enum. pl. zeyl. 184. 1860; Hook.f., Fl. Brit. India 1: 600. 1875.
Ilex thwaitesii Loes. ex Gamble, Fl. Madras 200. 1918 (1: 143. 1957, Repr.).
SW Ghats (Kerala, Tamilnadu).

Ilex wattii Loes., Monogr. Aquifol. 1: 322. 1901; Hu in J. Arnold Arbor. 31: 76. 1950.
Manipur.

Ilex wightiana Wall. ex Wight, Icon. pl. Ind. orient. t. 1216. 1848 & Spicil. neilgherr. t. 139. 1851; Bedd., Fl. sylv. S. India t. 142. 1871; Hook.f., Fl. Brit. India 1: 603. 1875.
var. **wightiana**.
SW Ghats (Kerala, Tamilnadu).

var. **peninsularis** Hook.f., Fl. Brit. India 1: 603. 1875.
SW Ghats.

ARALIACEAE

ARALIA L., Sp. pl. 273. 1753.

Aralia armata (Wall. ex G. Don) Seem. in J. Bot. 6: 134. 1868; C. B. Clarke in Hook. f., Fl. Brit. India 2: 723. 1879; J. Wen , A. K. Pandey & M. K. Pathak in Rheedea 12: 11. 2002.
Panax armatum Wall. ex G. Don , Gen. hist. 3: 386. 1834.
E Himalaya, E & NE India.

Aralia cachemirica Decne. in Jacquem., Voy. Inde 4: 72, t. 81. 1844; C.B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879; J. Wen et al. in Rheedea 12: 16. 2002.
Temperate C & W Himalaya.

Aralia chinensis L., Sp. pl. 273. 1953; N.P. Balakr. in Bull. Bot. Surv. India 16: 169. (1974) 1977.
Meghalaya.

Aralia dasyphylla Miq., Fl. Ned. Ind. 1: 751. 1856; N. P. Balakr. in Bull. Bot. Surv. India 16: 169. (1974) 1977.
Meghalaya.

Aralia foliolosa Wall. ex C.B. Clarke in Hook.f., Fl. Brit. India 2: 723. 1879; J. Wen et al. in Rheedea 12: 15. 2002.
Panax foliolosa Wall., Numer. List 4928. 1831, nom. nud.
Aralia foliolosa var. *sikkimensis* C.B. Clarke in Hook.f., Fl. Brit. India 2: 723. 1879.
E Himalaya, NE India.

Aralia gigantea J. Wen in Brittonia 45: 53. 1993; J. Wen et al. in Rheedea 12: 8. 2002.
Pentapanax racemosus Seem. in J. Bot. 2: 295. 1864 non *Aralia racemosa* L., 1753; C. B. Clarke in Hook.f., Fl. Brit. India 2: 724. 1879.
Parapentapanax racemosus (Seem.) Hutch., Gen. fl. pl. 2: 56. 1967.
C to E Himalaya, NE India.

Aralia kingdon-wardii J. Wen, Lowry & Esser in Adansonia 23: 307, f.1. 2001; J. Wen et al. in Rheedea 12: 5. 2002.
Gamblea longipes Merr. in Brittonia 4: 128. 1941 non *Aralia longipes* Truff. in Rev. Hort. 1891: 224. 1891.
E Himalaya, E & NE India.
Note: If this species is treated under *Pentapanax* the correct name will be :
Pentapanax longipes (Merr.) C.B. Shang & C.F. Ji in C.Y. Wu et al., Fl. China 13: 478. ined. – information available *online*.

Aralia leschenaultii (DC.) J. Wen in Brittonia 45: 53. 1993; J. Wen et al. in Rheedea 12: 6. 2002.
Panax leschenaultii DC., Prodr. 4: 254. 1830.
Hedera leschenaultii (DC.) Wight & Arn., Prodr. fl. Ind. orient. 1: 337. 1834.
Hedera trifoliata Wight & Arn., Prodr. fl. Ind. orient. 1: 377. 1834.
Pentapanax leschenaultii (DC.) Seem. in J. Bot. 2: 296. 1864; C. B. Clarke in Hook. f., Fl. Brit. India 2: 724. 1879.
Pentapanax umbellatum Seem., Rev. Hederac. 22. 1868.
Pentapanax leschenaultii var. *umbellatum* (Seem.) C. B. Clarke in Hook.f., Fl. Brit. India 2: 725. 1879.
E, NE & S India, Temperate Himalayas.

Aralia malabarica Bedd., Fl. sylv. S. India t. 15, f. 2. 1871; C.B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879; J. Wen et al. in Rheedea 12: 12. 2002.
SW Ghats (Kerala, Tamilnadu).

Aralia parasitica (D. Don) J. Wen in Brittonia 45: 53. 1993; J. Wen et al. in Rheedea 12: 4. 2002.
Hedera parasitica Buch.-Ham. ex D. Don, Prodr. fl. nepal. 188. 1825.
Hedera glauca Wall. ex G. Don, Gen. hist. 3: 394. 1834.
Pentapanax parasiticus (Buch.-Ham. ex D. Don) Seem. in J. Bot. 2: 296. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 2: 724. 1879; Cannon in H. Hara & L.H.J.Williams, Enum. fl. pl. Nepal 2: 192. 1979.
Pentapanax parasiticus var. *khasiana* C.B. Clarke in Hook.f., Fl. Brit. India 2: 724. 1879.
C to W Himalaya, NE India.

Aralia subcordata (Wall. ex G. Don) J. Wen in Brittonia 45: 53. 1993; J. Wen et al. in Rheedea 12: 10. 2002.
Hedera subcordata Wall. ex G. Don, Gen. hist. 3: 394. 1834.
Pentapanax subcordatus (Wall. ex G. Don) Seem. in J. Bot. 2: 295. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 2: 724. 1879.
Parapentapanax subcordatus (Wall. ex G. Don) Hutch., Gen. fl. pl. 2: 56. 1967.
Meghalaya.

Aralia thomsonii Seem. ex C. B. Clarke in Hook.f., Fl. Brit. India 2: 723. 1879; J. Wen et al. in Rheedea 12: 13. 2002.
NE India.

Aralia tibetana G. Hoo in Acta Phytotax. Sin., add. 1: 175. 1965; J. Wen et al. in Rheedea 12: 17. 2002.
Panax decompositum Wall. ex DC., Prodr. 4: 255. 1830 non *Aralia decomposita* Reinw. ex de Vriese, 1857.
Panax tripinnatum Wall. ex G. Don, Gen. hist. 3: 384. 1834 non *Aralia tripinnata* Blanco, 1837.
Aralia cachemirica sensu C. B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879 p.p., non Decne., 1844.
C & E Himalaya.

ARTHROPHYLLUM Blume, Bijdr. 878. 1826.

Arthrophyllum diversifolium Blume, Bijdr. 879. 1826; C.B. Clarke in Hook.f., Fl. Brit. India 2: 733. 1879.
Andaman & Nicobar Islands.

BRASSAIOPSIS Decne. & Planch. in Rev. Hort. ser. 4, 3: 106. 1854.
PSEUDOBRASSAIOPSIS R.N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 71. 1975.

Brassaiopsis aculeata (Buch.-Ham. ex D. Don) Seem. in J. Bot. 2: 293. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 2: 738. 1879.
Hedera aculeata Buch.-Ham. ex D. Don, Prodr. fl. nepal. 187. 1825.
Himalayas, NE India.

Brassaiopsis andamanica R.N. Banerjee in Indian Forester 94: 775. 1968.
Araliopsis andamanica Kurz, Rep. veg. Andaman Isl. 39, 1870 nom. nud.
Pseudobrassaiopsis andamanica (R.N. Banerjee) R. N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 72. 1978.
Andaman Islands.

Brassaiopsis glomerulata (Blume) Regel in Gartenflora 12: 275, t. 411. 1863; Maheshw. in Bull. Bot. Surv. India 2: 375. 1960.
Aralia glomerulata Blume, Bijdr. 872. 1826.
Brassaiopsis speciosa Decne. & Planch. in Rev. Hort. ser. 4, 3 : 106. 1854; C.B. Clarke in Hook.f., Fl. Brit. India 2: 737. 1879.
var. **glomerulata**.
C to E Himalaya, NE India.

var. **hirta** (C.B. Clarke) Maheshw. in Bull. Bot. Surv. India 2: 375. 1960.
Brassaiopsis speciosa var. *hirta* C.B. Clarke in Hook.f., Fl. Brit. India 2: 737. 1879.
NE India.

var. **rufo-stellata** (C.B. Clarke) Maheshw. in Bull. Bot. Surv. India 2: 375. 1960.
Brassaiopsis speciosa var. *rufo-stellata* C.B. Clarke in Hook.f., Fl. Brit. India 2: 737. 1879.
NE India.

var. **serrata** (C.B. Clarke) Maheshw. in Bull. Bot. Surv. India 2: 375. 1960.
Brassaiopsis speciosa var. *serrata* C.B. Clarke in Hook.f., Fl. Brit. India 2: 737. 1879.
E Himalaya, NE India.

var. **subovata** (C.B. Clarke) Maheshw. in Bull. Bot. Surv. India 2: 375. 1960.
Brassaiopsis speciosa var. *subovata* C.B. Clarke in Hook.f., Fl. Brit. India 2: 737. 1879.
E Himalaya.

Brassaiopsis griffithii C.B. Clarke in Hook.f., Fl. Brit. India 2: 736. 1879.
Pseudobrassaiopsis griffithii (C.B. Clarke) R.N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 72. 1975.
NE India.

Brassaiopsis hainla (Buch.-Ham. ex D. Don) Seem. in J. Bot. 2: 291. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 2: 735. 1879.
Hedera hainla Buch.-Ham. ex D. Don, Prodr. fl. nepal. 187. 1825.
Pseudobrassaiopsis hainla (Buch.-Ham. ex D. Don) R.N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 72. 1975.
NE India, Temperate E Himalaya.

Brassaiopsis hispida Seem. in J. Bot. 2: 292. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 2: 736. 1879.
Pseudobrassaiopsis hispida (Seem.) R.N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 72. 1975.
E Himalaya, NE India.

Brassaiopsis hookeri C.B. Clarke in Hook.f., Fl. Brit. India 2: 737. 1879.
E Himalaya, NE India.

Brassaiopsis magnifica Dunn in Bull. Misc. Inform. 1920: 132. 1920.
E Himalaya.

Brassaiopsis mitis C.B. Clarke in Hook.f., Fl. Brit. India 2: 736. 1879.
Euaraliopsis mitis (C.B. Clarke) N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 60. 1970.
Pseudobrassaiopsis mitis (C.B. Clarke) R.N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 73. 1975.
C to E Himalaya, NE India.

Brassaiopsis polyacantha (Wall.) R.N. Banerjee in Indian Forester 93: 341. 1967.
Hedera polyacantha Wall., Pl. asiat. rar. 2: 82, t. 190. 1831.
Panax palmatum Roxb., Fl. ind. (Ed. Carey) 2: 74. 1832.
Brassaiopsis palmata (Roxb.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 39 (2): 77. 1870; C.B. Clarke in Hook.f., Fl. Brit. India 2: 735. 1879.
Euaraliopsis palmata (Roxb.) Hutch., Gen. fl. pl. 2: 80. 1967.
Pseudobrassaiopsis polyacantha (Wall.) R.N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 72. 1975.
var. **polyacantha**.
Andaman Islands, E Himalaya, NE India.

var. **andamanica** (King) H.B. Naithani & S. Biswas in H.B. Naithani, Fl. pl. India, Nepal & Bhutan 192. 1990.
Brassaiopsis palmata var. *andamanica* King in J.Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 67: 62. 1898.
Andaman Islands.

Brassaiopsis simplicifolia C.B. Clarke in Hook.f., Fl. Brit. India 2: 735. 1879.
E Himalaya, NE India.

DENDROPANAX Decne. & Planch. in Rev. Hort. ser. 4, 3: 107. 1854.

Dendropanax chevalieri (R.Vig.) Merr. in J. Arnold Arbor. 19: 59. 1938; Maheshw. in Bull. Bot. Surv. India 2: 377. 1960.
Gilibertia chevalieri R. Vig. in Lecomte, Fl. Indo-Chine 2: 1181. 1923.
Dendropanax japonicum C.B. Clarke in Hook.f., Fl. Brit. India 2: 733. 1879 non Seem., 1864.
Merrilliopanax japonicum sensu Harid. & R. R. Rao, Forest fl. Meghalaya 1: 436. 1985.
Meghalaya.

ELEUTHEROCOCCUS Maxim. in Mem. Acad. Imp. Sci. St.-Petersbourg Divers Savans 9: 132. 1859.

Eleutherococcus cissifolius (Griff. ex Seem.) Nakai in Chosen-shokubutsu 1: 420. 1914 & in J. Arnold Arbor. 5: 9. 1924.
Aralia cissifolia Griff. ex Seem. in J. Bot. 6: 134. 1868; C.B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879.
Aralia cissifolia var. *normalis* C.B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879.
Acanthopanax cissifolius (Griff. ex Seem.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 50. 1894.
var. **cissifolius**.
Temperate Himalayas.

var. **scandens** (Edgew. ex C. B. Clarke) P. Daniel in Indian J. Forest. 6: 244. 1983.
Aralia cissifolia var. *scandens* Edgew. ex C. B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879.
Acanthopanax cissifolius var. *scandens* (Edgew. ex C. B. Clarke) Maheshw. in Bull. Bot. Surv. India 2: 377. 1960.
W Himalaya.

Eleutherococcus leucorrhizus Oliv. in Hooker's Icon. Pl. ser. 3, 18: t. 1711. 1887 - 1888.
Acanthopanax leucorrhizus (Oliv.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 49. 1894.
E Himalaya.

Eleutherococcus trifoliatus (L.) S. Y. Hu in J. Arnold Arbor. 61: 110. 1980; P. Daniel in Indian J. Forest. 6: 245. 1983.
Zanthoxylum trifoliatum L., Sp. pl. 270. 1753.
Panax aculeatum Aiton, Hort. kew. 3: 448. 1789.
Acanthopanax aculeatum (Aiton) Seem. in J. Bot. 5: 238. 1867; C.B. Clarke in Hook.f., Fl. Brit. India 2: 726. 1879.
Acanthopanax trifoliatum (L.) Merr. in Philipp. J. Sci. 1, Suppl. 217. 1906.
C to E Himalaya, NE India.
Note: Z. Yu Li & G.H. Zhu have proposed to conserve *Acanthopanax* against *Eleutherococcus* – see Taxon 54: 194 – 195. 2005.

GAMBLEA C.B. Clarke in Hook.f., Fl. Brit. India 2: 739. 1879.

Gamblea ciliata C.B. Clarke in Hook.f., Fl. Brit. India 2: 740. 1879.
E Himalaya, NE India.

HEDERA L., Sp. pl. 202. 1753.

Hedera nepalensis K. Koch, Hort. dendrol. 284, t. 75. 1853; T.A. Rao in Rec. Bot. Surv. India 18 (2): 33. 1961.
Hedera helix sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 739. 1879 non L., 1753.
Hedera himalaica Tobler, Hedera 67. 1912.
Himalayas, NE & S India, Punjab plains.

HETEROPANAX Seem., Fl. vit. 114. 1866.

 # Heteropanax fragrans (Roxb. ex DC.) Seem., Fl. vit. 114. 1866; C.B. Clarke in Hook.f., Fl. Brit. India 2: 734. 1879.
Panax fragrans Roxb. ex DC., Prodr. 4: 254. 1830.
Heteropanax fragrans var. *attenuatus* C.B. Clarke in Hook.f., Fl. Brit. India 2: 735. 1879.
Heteropanax fragrans var. *subcordatus* C.B. Clarke in Hook.f., Fl. Brit. India 2: 735. 1879.
Pentapanax fragrans (Roxb.) Ha in Novosti Sist. Vyssh. Rast. 11: 227. 1974.
Aralia fragrans (Roxb.) Jebb & J. Wen in Adansonia 23: 311. 2001 non G. Don ex Loudon, 1830.
var. **fragrans.**
Andaman Islands, E & NE India, Himalayas.

var. **serrata** Haines, Bot. Bihar Orissa 417. 1921 (2: 436. 1961, Repr.).
Bihar (Palamau).

MACROPANAX Miq., Fl. Ned. Ind. 1: 763. 1856.

Macropanax dispermus (Blume) Kuntze, Revis. gen. pl. 1: 271. 1891; R. N. Banerjee in Rec. Bot. Surv. India 20 (2): 112. 1973.
Aralia disperma Blume, Bijdr. 872. 1826.
Macropanax oreophilum Miq., Fl. Ned. Ind. 1: 764. 1856; C.B. Clarke in Hook.f., Fl. Brit. India 2: 738. 1879.
var. **dispermus.**
Himalayas, NE India.

var. **integer** C. B. Shang in Bull. Mus. Natl. Hist. Nat. (Paris) 4e ser. 5, sect. B, Adansonia no. 1: 40. 1983.
Meghalaya.

Macropanax meghalayensis Harid. & R. R. Rao, Forest fl. Meghalaya 1: 435. 1985.
Meghalaya.

Macropanax undulatus (Wall. ex G. Don) Seem. in J. Bot. 2: 294. 1864; C.B. Clarke in Hook.f., Fl. Brit. India 2: 738. 1879.
Hedera undulatum Wall. ex G. Don, Gen. hist. 3: 294. 1834.
E Himalaya, NE India.

MERRILLIOPANAX H. L. Li in Sargentia 2: 62. 1942.

Merrilliopanax alpinus (C.B.Clarke) C. B. Shang in Bull. Mus. Natl. Hist. Nat. (Paris) 4e ser. 5, sect. B, Adansonia no. 5: 293. 1983.
Brassaiopsis alpina C.B. Clarke in Hook.f., Fl. Brit. India 2: 736. 1879.
Merrilliopanax cordifolius Sastry in Blumea 15: 297. 1967.
Eunaliopsis alpina (C.B.Clarke) N. P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 60. 1970.
Pseudobrassaiopsis alpina (C.B.Clarke) R. N. Banerjee in J. Bombay Nat. Hist. Soc. 72: 72. 1975.
C to E Himalayas, NE India.

Merrilliopanax listeri (King) H. L. Li in Sargentia 2: 63, f. 10. 1942 quoad nom. tantum; C.B. Shang in Bull. Mus. Natl. Hist. Nat. (Paris) 4e ser. 5, sect. B, Adansonia no. 5: 292. 1983.
Dendropanax listeri King in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 67 (2): 294. 1898.
Gilbertia listeri (King) Hand.-Mazz. in Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz. 60: 185. (1923) 1924, in obs.
Merrilliopanax chinensis H. L. Li in Sargentia 2: 65. 1942.
NE India.

Merrilliopanax membranifolius (W.W. Sm.) C. B. Shang in Bull. Mus. Natl. Hist. Nat. (Paris) 4e ser. 5, sect. B. Adansonia no. 5: 291. 1983.
Nothopanax membranifolius W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 10: 53. 1917.
Gilibertia myriantha Hand.-Mazz. in Akad. Wiss. Wien, Math-Naturwiss. Kl., Anz. 60: 184. (1923) 1924.
Gilibertia membranifolia (W.W. Sm.) Hand.-Mazz., Symb. sin. 7: 692. 1933.
Assam.

PANAX L., Sp. pl. 1058. 1753.

Panax bipinnatifidus Seem. in J. Bot. 6: 54. 1868; Bennet & B. K. Sharma in Indian Forester 109: 840. 1983.
Aralia bipinnatifida (Seem.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 722. 1879.
Aralia quinquefolia Decne. & Planch. var. *major* Burkill in Bull. Misc. Inform. 1902: 7. 1902.
Aralia quinquefolia var. *elegantior* Burkill in Bull. Misc. Inform. 1902: 8. 1902.
Panax pseudoginseng Wall. var. *bipinnatifidus* (Seem.) H. L. Li in Sargentia 2: 118. 1942.
Panax pseudoginseng var. *himalaicus* H. Hara in J. Jap. Bot. 45: 208. 1970.
Panax japonicus C.A. Mey. var. *bipinnatifidus* (Seem.) C. Y. Wu & K. M. Feng in Acta Phytotax. Sin. 13: 43. 1975.
var. **bipinnatifidus.**
E Himalaya.

var. **angustifolius** (Burkill) J. Wen in Punja (Ed.), Util. biotech. appr. N. Amer., asian ginseng impr. (Proc. Intern. Ginseng Workshop, Simon Fraser Univ.) : 73. 2001; Frodin & Govaerts, World checklist, bibl. Araliaceae 265. 2003.
Aralia quinquefolia var. *angustifolia* Burkill in Bull. Misc. Inform. 1902: 7. 1902 non
Panax angustifolium F. Muell., 1855.
Panax pseudoginseng var. *angustifolius* (Burkill) H. L. Li in Sargentia 2: 118. 1942.
Panax japonicus var. *angustifolius* (Burkill) C.Y. Cheng & C.Y. Chu in Acta Pharm. Sin. 9: 538. 1962.
Panax assamicus R. N. Banerjee in Bull. Bot. Surv. India 10: 23. 1968.
Panax burkillianus Bennet & M. V. Viswan. in Indian Forester 110: 1049, pl. 2. 1984.
E Himalaya, NE India.

Panax ginseng C.A. Mey. in Rep. Pharm. Prakt. Chem. Russ. 7: 524. 1842 & in Bull. Cl. Phys.-Math. Acad. Imp. Sci. Saint- Pétersbourg ser. 2, 1: 350. 1843; Bennet & B.K. Sharma in Indian Forester 109: 840. 1983; Frodin & Govaerts, World checklist, bibl. Araliaceae 265. 2003.
Panax schin-seng T. Nees, Pl. Med., Suppl. 1: 70. 1833 nom. illeg.; Changk. & Y. Kumar in Indian J. Forest. 15: 85, f. 2. 1992.
Nagaland.

Panax pseudoginseng Wall. in Trans. Med. Soc. Calcutta 4: 117. 1829; R.N. Banerjee in Rec. Bot. Surv. India 20: 112. 1973.
Aralia pseudoginseng (Wall.) Benth. ex C.B. Clarke in Hook.f., Fl. Brit. India 2: 721. 1879.
Aralia quinquefolia var. *pseudoginseng* (Wall.) Burkill in Bull. Misc. Inform. 1902: 7. 1902.
Panax sikkimensis R.N. Banerjee in Bull. Bot. Surv. India 10: 21. 1968.
Himalayas, NE India.

POLYSCIAS J.R. & G. Forst., Char. gen. pl. 63. 1776.

Polyscias acuminata (Wight) Seem. in J. Bot. 3: 181. 1865; C.B. Clarke in Hook.f., Fl. Brit. India 2: 727. 1879.
Hedera acuminata Wight, Icon. pl. Ind. orient. t. 1062. 1846.
W Ghats.

Polyscias fruticosa (L.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 45. 1894; Chandrab. & N.C. Nair, Fl. Coimbatore 135. 1988.
Panax fruticosum L., Sp. pl. ed. 2. 1513. 1763; Wight, Icon. pl. Ind. orient. t. 473. 1842; C.B. Clarke in Hook.f., Fl. Brit. India 2: 725. 1879.
Cultivated.

Polyscias guilfoylei (Cogn. & Marchal) L. H. Bailey in Rhodora 18: 153. 1916; Chandrab. & N. C. Nair, Fl. Coimbatore 135. 1988.
Aralia guilfoylei Cogn. & Marchal, Pl. ornem. 2: t. 58. 1874.
Cultivated.

Polyscias scutellaria (Burm.f.) Fosberg in Univ. Hawaii Occ. Pap. 46: 9. 1948; B.C. Stone in Taxon 14: 284. 1965.
Crassula scutellaria Burm. f., Fl. indica 78. 1768.
Polyscias pinnata sensu C.B. Clarke in Hook.f., Fl. Brit. India 2: 727. 1879 non J. R. & G. Forst., 1776.
Ind. or.

SCHEFFLERA J. R. & G. Forst., Char. gen. pl. 45. 1776, nom. cons.

Schefflera agasthyamalayana Manickam, Murugan, Sundaresan & Jothi in Indian J. Forest. 30: 61, f. 1. 2007.
SW Ghats (Tamilnadu).

Schefflera arboricola (Hayata) Merr. in Lingnan Sci. J. 5: 139. 1927; N. P. Balakr. in Bull. Bot. Surv. India 16: 169. 1977.
Heptapleurum arboricolum Hayata, Icon. pl. formos. 6: 23. 1916.
Meghalaya.

Schefflera bourdillonii Gamble in Bull. Misc. Inform. 1919: 228. 1919 & Fl. Madras 570. 1919 (1: 403. 1967, Repr.); Gopalan, Chellad. & M. P. Subram. in Rheedea 10: 69, f.1, A-F. 2000.
SW Ghats (Kerala, Tamilnadu).

Schefflera capitata (Wight & Arn.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 36. 1894; Gamble, Fl. Madras 1: 403. 1967 (Repr.).
Paratropia capitata Wight & Arn., Prodr. fl. Ind. orient. 378. 1834.
Brassaia capitata (Wight & Arn.) C. B. Clarke in Hook.f., Fl. Brit. India 2: 732. 1879.
SW Ghats.

Schefflera cephalotes (C.B. Clarke) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 36. 1894; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 164. 1986.
Heptapleurum cephalotes * C.B. Clarke in Hook.f., Fl. Brit. India 2: 731. 1879.
Note: Non-indigenous in Andamans, (Vasudeva Rao, op. cit.); * C.B. Clarke reported this from Malacca.

Schefflera chandrasekharanii Ramam. & Rajan in J. Bombay Nat. Hist. Soc. 79: 163. 1982.
Kerala.

Schefflera clarkeana Craib, Fl. siam. 1: 977. 1931; C.E.C. Fisch. in Rec.Bot. Surv. India 12: 99. 1938; R.N. Banerjee in Rec. Bot. Surv. India 20: 113. 1973.
Heptapleurum venulosum var. *macrophyllum* C. B. Clarke in Hook.f., Fl. Brit.
India 2: 730. 1879.
E Himalaya, NE India, Tamilnadu.

Schefflera elata (Buch.- Ham. ex D.Don) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 38. 1894; C. B. Shang in Candollea 39: 481 1984.
Hedera elata Buch.- Ham. ex D. Don, Prodr. fl. nepal. 187. 1825.
Heptapleurum elatum (Buch.-Ham. ex D. Don) C. B. Clarke in Hook.f., Fl. Brit. India 2: 728. 1879.
Schefflera bhutanica R.N. Banerjee in Bull. Bot. Surv. India 8: 100. 1966.
var. **elata.**
Himalayas, NE India.

var. **griffithii** (Seem.) Maheshw. in Bull. Bot. Surv. India 2: 376. 1960.
Agalma griffithii Seem. in J. Bot. 2: 299. 1864.
Heptapleurum elatum var. *griffithii* (Seem.) C. B. Clarke in Hook.f., Fl. Brit. India 2: 728. 1879; Kanjilal et al., Fl. Assam 2: 351. 1938.
NE India.

Schefflera elliptica (Blume) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 39. 1894; C. B. Shang in Candollea 39: 468. 1984.
Sciadophyllum ellipticum Blume, Bijdr. 878. 1826.
Paratropia venulosa Wight & Arn., Prodr. fl. Ind. orient. 1: 377 1834.
Paratropia elliptica (Blume) Miq. in Bonplandia 4: 138. 1856.
Heptapleurum ellipticum (Blume) Seem. in J. Bot. 3: 78. 1865.
Heptapleurum venulosum (Wight & Arn.) Seem. in J.Bot. 3: 80. 1865; C. B. Clarke in Hook.f., Fl. Brit. India 2: 729. 1879.
Schefflera venulosa (Wight & Arn.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 39. 1894.
Schefflera bengalensis Gamble in Bull. Misc. Inform. 1919: 229. 1919.
var. **elliptica.**
Throughout tropical & subtropical India including Andaman & Nicobar Islands.

var. **obliquinervia** (Gamble) Karthik. & Moorthy comb. nov.
Schefflera venulosa var. *obliquinervia* Gamble, Fl. Madras 570. 1919 (1: 403. 1967, Repr.).
SW Ghats (Kerala, Tamilnadu).

 # Schefflera heptaphylla (L.) Frodin in Bot. J. Linn. Soc. 104: 314. (1990) 1991.
Vitis heptaphylla L., Mant. pl. 2: 212. 1771.
India.

Schefflera hoi (Dunn) R. Vig. in Ann. Sci. Nat. Bot. ser. 9, 9 : 333. 1909; H. B. Naithani & Bennet in Indian Forester 108: 495. 1982.
Heptapleurum hoi Dunn in J. Linn. Soc., Bot. 35: 498. 1903.
Schefflera saluenensis W. W. Sm. in Notes Roy. Bot. Gard. Edinburgh 10: 64.
1917 & 14: 208. 1924.
Arunachal Pradesh.

Schefflera hypoleuca (Kurz) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 38. 1894; C.B. Shang in Candollea 39: 477. 1984.
Heptapleurum hypoleucum Kurz, Forest fl. Burma 1: 539. 1877; C. B. Clarke in Hook.f., Fl. Brit. India 2: 728. 1879.
NE India.

Schefflera longifolia (Blume) R. Vig. in Ann. Sci. Nat. Bot. ser. 9, 9: 356. 1909; S. K. Srivast. in J. Bombay Nat. Hist. Soc. 88: 303, ff. 1-7. (1991) 1992; Lakshmin. & P. S. N. Rao in J. Econ. Taxon. Bot. 20: 177. 1996.
Sciadophyllum longifolium Blume, Bijdr. 876. 1826.

Heptapleurum longifolium (Blume) Seem. in J. Bot. 3: 79. 1865.
Schefflera pushpangadanii Chakrab. in J. Econ. Taxon. Bot. 6: 421,pl. 1. 1985.
Great Nicobar Islands.

Schefflera maduraiensis K. Ravik. & V. Lakshm. in Rheedea 9: 66,f. 5, a-f. 1999.
SW Ghats (Tamilnadu).

 # Schefflera pauciflora R. Vig. in Ann. Sci. Nat. Bot. ser. 9, 9: 357. 1909.
Schefflera glomerulata H. L. Li in Sargentia 2: 32, f. 4. 1942; N. P. Balakr. in Bull. Bot. Surv. India 16: 170. 1977
Meghalaya.

Schefflera pueckleri (K. Koch) Frodin apud Lowry, Jam.Mill. & Frodin in Baileya 23: 10.1989.
Tupidanthus pueckleri K. Koch in Wochenschr. Gärtnerei Pflanzenk. 2: 348. 1859.
Tupidanthus calyptratus Hook.f. & Thomson in Curtis, Bot. Mag. (Ed. Hook.) 82: t. 4908. 1856; C.B. Clarke in Hook.f., Fl. Brit. India 2: 740. 1879.
Meghalaya.

Schefflera racemosa (Wight) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 38. 1894; Gamble, Fl. Madras 1: 402. 1967 (Repr.).
Hedera racemosa Wight, Icon. pl. Ind. orient. t. 1015. 1845.
Heptapleurum racemosum (Wight) Bedd., Fl. sylv. S. India t. 214. 1872; C.B. Clarke in Hook. f., Fl. Brit. India 2: 729. 1879.
SW Ghats (Kerala, Tamilnadu).

 # Schefflera rhododendrifolia (Griff.) Frodin in Frodin & Govaerts, World Checkl. Bibliogr. Araliac. 317. (2003) 2004.
Panax rhododendrifolius Griff., Itin. pl. Khasyah mts. (Posth. Papers) 2: 127, no. 487. 1848.
Agalma glaucum Seem. in J. Bot. 2: 299. 1864.
Heptapleurum impressum C.B. Clarke in Hook. f., Fl. Brit. India 2: 728. 1879 based on *Hedera tomentosa* Buch.-Ham. ex D. Don, Prodr. fl. nepal. 187. 1825 non *Schefflera tomentosa* (Seem.) Harms, 1894.
Heptapleurum glaucum (Seem.) C.B. Clarke in Hook.f., Fl. Brit. India 2: 728. 1879 non Kurz, 1877.
Schefflera impressa (C.B. Clarke) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 38. 1894; C.B. Shang in Candollea 39: 475. 1984.
Schefflera glauca (Seem.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 38. 1894.
NE India, Temperate Himalayas.

Schefflera rostrata (Wight) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 38. 1894; Gamble, Fl. Madras 1: 402. 1967 (Repr.).
Hedera rostrata Wight, Icon. pl. Ind. orient. tt. 1013 & 1014. 1845.
Heptapleurum rostratum (Wight) Bedd., Fl. sylv. S. India t. 122. 1871; C. B. Clarke in Hook.f., Fl. Brit. India 2: 729. 1879.
var. rostrata.
SW Ghats (Nilgiris).

var. micrantha (C.B. Clarke) Maheshw. in Bull. Bot. Surv. India 2: 376. 1960.
Heptapleurum rostratum var. *micranthum* C. B. Clarke in Hook.f., Fl. Brit. India 2: 729. 1879.
Schefflera micrantha (C.B. Clarke) Gamble, Fl. Madras 569. 1919 (1: 402. 1967, Repr.) non Ridl., 1922.
SW Ghats (Kerala, Tamilnadu).

Schefflera roxburghii Gamble, Fl. Madras 570. 1919 (1: 402. 1967, Repr.).
Aralia digitata Roxb., Fl. ind. (Ed. Carey) 2: 107. 1832 non *Schefflera digitata* J.R. & G. Forst., 1776.
Heptapleurum venulosum sensu C.B. Clarke in Hook. f., Fl. Brit. India 2: 729. 1879, p.p. non Seem., 1865.
Schefflera venulosa (Wight & Arn.) Harms var. *roxburghii* (Gamble) K.K. Khanna in J. Econ. Taxon. Bot. 26: 144. 2002.
C. E & S. India.

Schefflera shweliensis W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 10: 65. 1917 & 17: 173, 283. 1930; C.E.C. Fisch. in Bull. Misc. Inform. 1934: 910. 1934; Kanjilal et al., Fl. Assam 2: 380. 1938; Deb in Bull. Bot. Surv. India 3: 273. 1961.
NE India.

Schefflera stellata (Gaertn.) Harms in Engl. & Prantl, Nat. Pflanzenfam. III, 8: 39. 1894; Gamble, Fl. Madras 1: 402. 1967 (Repr.).
Heptapleurum stellatum Gaertn., Fruct. sem. pl. 2: 472, t. 178. 1791; C.B. Clarke in Hook. f., Fl. Brit. India 2: 730. 1879.
S India.

Schefflera wallichiana (Wight & Arn.) Harms in Engl. & Prantl, Nat. flanzenfam. III, 8:38. 1894; Gamble, Fl. Madras 1: 403. 1967 (Repr.).
Paratropia wallichiana Wight & Arn., Prodr. fl. Ind. orient. 377. 1834.
Heptapleurum wallichianum (Wight & Arn.) C.B. Clarke in Hook. f., Fl. Brit. India 2: 730. 1879.
Heptapleurum khasianum C.B. Clarke in Hook. f., Fl. Brit. India 2: 730. 1879.
Schefflera khasiana (C.B. Clarke) R. Vig. in Ann. Sci. Nat. Bot. ser. 9, 9: 351. 1909.
E Himalaya, NE & S India.

TETRAPANAX (K. Koch) K. Koch in Wochenschr. Gärtnerei Pflanzenk. 2: 371. 1859.
DIDYMOPANAX subg. TETRAPANAX K. Koch in Wochenschr. Gärtnerei Pflanzenk. 2: 70. 1859.

Tetrapanax papyrifera (Hook.) K. Koch in Wochenschr. Gärtnerei Pflanzenk. 2: 371. 1859; Raizada in Indian Forester 94: 452. 1968.
Aralia papyrifera Hook. in Curtis, Bot. Mag. (Ed. Hook.) 82: t. 4897. 1856.
Cultivated.

TREVESIA Vis. in Mem. Reale Accad. Sci. Torino ser. 2, 4: 262. 1842.

Trevesia palmata (Roxb. ex Lindl.) Vis. in Mem. Reale Accad. Sci. Torino ser. 2, 4: 262. 1842; C.B. Clarke in Hook. f., Fl. Brit. India 2: 732. 1879.
Gastonia palmata Roxb. ex Lindl. in Bot. Reg. (Ed. Ker Gawl.) 11: t. 894. 1825 – 1826.
var. palmata.
E Himalaya, E & NE India.

var. **insignis** (Miq.) C.B. Clarke in Hook. f., Fl. Brit. India 2: 732. 1879.
Trevesia insignis Miq. in Ann. Mus. Bot. Lugduno- Batavum 1: 220. 1864.
NE India.

Note: for # marked entries nomenclatural changes have been adapted from C.B. Shang & Lowry in C.Y. Wu, et al. (Eds.), Fl. China 13: 435 – 491, in press- available *online*.

ARISTOLOCHIACEAE

ARISTOLOCHIA L., Sp. pl. 960. 1753.

Aristolochia acuminata Lam., Encycl. 1: 254. 1783; Bosser in Adansonia ser. 3, 19 (1) : 170. 1997.
Aristolochia tagala Cham. in Linnaea 7: 207, t. 5, f. 3. 1832; K.M. Matthew, Fl. Tamilnadu Carnatic 3 (2): 1345. 1983.
Aristolochia roxburghiana Klotzsch in Monatsber. Königl. Preuss. Akad. Wiss. Berlin 1859: 596. 1859; Hook. f., Fl. Brit. India 5: 75. 1886.
Andaman & Nicobar Islands, E Himalaya, E NE & Peninsular India.

Aristolochia bracteolata Lam., Encycl. 1: 258. 1783; Santapau & Wagh in Bull. Bot. Surv. India 5: 105. (1963) 1964.
Aristolochia bracteata Retz., Observ. bot. 5: 29. 1788; Hook. f., Fl. Brit. India 5: 75. 1886.
C E N & Peninsular India.

Aristolochia dilatata N.E. Br. in Bull. Misc. Inform. 1911: 274. 1911.
W Himalaya.

Aristolochia gourigangaica N.C. Nair in Bull. Bot. Surv. India 10: 332, ff. 1-2. 1969.
W Himalaya.

Aristolochia indica L., Sp. pl. 960. 1753; Hook. f., Fl. Brit. India 5: 75. 1886.
Aristolochia lanceolata Wight, Icon. pl. Ind. orient. t. 1858. 1852.
Throughout India including Andaman & Nicobar Islands.

Aristolochia jackii Steud., Nomencl. bot. ed. 2. 1: 132. 1840; S. K. Srivast. & S. P. Mathew in Bull. Bot. Surv. India 32: 183, ff. 1-3.1992.
Great Nicobar Islands.

Aristolochia krisagathra Sivar. & Pradeep in Pl. Syst. & Evol. 163: 31. 1989.
SW Ghats (Kerala, Tamilnadu).

Aristolochia labiosa Ker Gawl. in Bot. Reg. (Ed. Ker Gawl.) 8: t. 689. 1823; Chandrab. & N.C. Nair, Fl. Coimbatore 261. 1988.
Cultivated.

Aristolochia littoralis D. Parodi in Anales Soc. Ci. Argent. 5: 155. 1878; Raizada, Suppl. Duthie's fl. Gangetic plain 241. 1976.
Aristolochia elegans Mast. in Gard. Chron. n.s. 24: 301, t. 64. 1885; R. Parker, Forest fl. Punjab 421.1984 (3rd Repr.).
Cultivated.

Aristolochia platanifolia Duch. in DC., Prodr. (Ed. A. DC.) 15(1): 437. 1864; Hook. f., Fl. Brit. India 5: 76. 1886.
E Himalaya, NE India.

Aristolochia punjabensis Lace in Bull. Misc. Inform. 1911: 273. 1911.
NW India, W Himalaya.

 # Aristolochia saccata Wall., Pl. asiat. rar. 2: 2, t. 103. 1830; Hook. f., Fl. Brit. India 5: 76. 1886.
Aristolochia cathcartii Hook. f., Fl. Brit. India 5: 77. 1886.
E Himalaya, NE India.
var. **saccata.**
E Himalaya, NE India.

var. **dilatata** Hook. f., Fl. Brit. India 5: 77. 1886.
W Himalaya.

Nomenclature after S.M. Huang, L.M. Kelly & M.G. Gilbert in C.Y. Wu & P.H. Raven (Eds.), Fl. China 5: 246 – 269. 2003 which is available *online*.

ASARUM L., Sp. pl. 442. 1753.

Asarum cordifolium C.E.C. Fisch. in Bull. Misc. Inform. 1930: 241. 1930.
E Himalaya.

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Andaman & Nicobar Islands.

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Andaman Islands.

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Throughout India.

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E & Peninsular India.

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E & Peninsular India.

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Tamilnadu.

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S India.

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C Himalaya.

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S India.

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Meghalaya.

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E Himalaya ?

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var. **bulbosa.**
Throughout India.

var. **lushii** (J. Graham) Hook.f., Fl. Brit. India 4: 68. 1883.
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Throughout India.

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ssp. **candelabrum**.
C. E. NE & Peninsular India.

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E & S India.

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SW Ghats (Kerala, Tamilnadu).

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E Himalayas ?

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Goa, Karnataka & Maharashtra.

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S India.

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Throughout India.

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var. **hookeri.**
C to E Himalaya.

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C Himalaya.

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NW Ghats (Maharashtra).

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S India.

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Maharashtra.

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Peninsular India.

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E Himalaya.

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NW Ghats (Maharashtra).

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E & NE India, Himalayas.

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Arunachal Pradesh, Meghalaya.

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E Himalaya, NE India.

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E Himalaya ?

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Maharashtra.

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C Himalaya.

Ceropegia metziana Miq., Anal. bot. ind. 3: 11. 1852; Ansari in Fasc. fl. India 16: 25. 1984.
Ceropegia brevicoltis Hook.f., Fl. Brit. India 4: 74. 1883 p.p.
S India.

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Maharashtra.

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NW Ghats (Maharashtra).

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var. **oculata**.
Peninsular India.

var. **satpudensis** Punekar, S.D. Jagtap & Deokule in Curr. Sci. 91: 1143, f. 1. 2006.
Maharashtra.

Ceropegia odorata Nimmo ex Hook.f., Fl. Brit. India 4: 75. 1883.
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Gujarat, Maharashtra & Rajasthan.

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SW Ghats(Tamilnadu).

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NW Ghats (Maharashtra).

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C Himalaya.

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NE India, temperate Himalayas.

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Peninsular India, Punjab.

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NW Ghats (Maharashtra).

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NW Ghats (Maharashtra).

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NW Ghats (Maharashtra).

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SW Ghats (Tamilnadu).

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S India.

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SW Ghats (Kerala, Tamilnadu).

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E Himalaya ?

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Ceropegia hirsuta var. *vincaefolia* (Hook.) Hook.f., Fl. Brit. India 4: 72. 1883.
Ceropegia stocksii Hook.f., Fl. Brit. India 4: 74. 1883.
Ceropegia polyantha Blatt. & McCann in J. Bombay Nat. Hist. Soc. 34: 936. 1931.
NW Ghats (Maharashtra).

Ceropegia wallichii Wight, Contr. bot. India 32. 1834; Hook.f., Fl. Brit. India 4: 67. 1883.
C to W Himalaya.

Ceropegia woodii Schltr. in Bot. Jahrb. Syst. 18, Beibl. n. 45: 34. 1894; Guha Bakshi, Fl. Murshidabad 196. 1984; M. R. Almeida, Fl. Maharashtra 3 (A&B) : 239. 2001.
Cultivated.

Note: Hook.f., Fl. Brit. India 4: 68. 1883 reported *Ceropegia wightii* J. Graham in Curtis, Bot. Mag. (Ed. Hook.) 60: t. 3267. 1833 and indicated thus: 'East Indies, formerly cultivated in the Edinburgh Botanic Garden. Probably a form of *C. bulbosa* from Bombay.'

M. R. Almeida, Fl. Maharashtra 3 (A&B) : 234. 2001 provides a new name *Ceropegia lawii* var. *wadhwai* for *Ceropegia lawii* sensu Ansari in Fasc. fl. India 16: 19. 1984 non Hook. f., 1883 which is from Maharashtra.

COSMOSTIGMA Wight, Contr. bot. India 41. 1834.

Cosmostigma racemosum (Roxb.) Wight, Contr. bot. India 42. 1834 & Icon. pl. Ind. orient. t. 591. 1842; Hook.f., Fl. Brit. India 4: 46. 1883.
Asclepias racemosa Roxb., Fl. ind. (Ed. Carey) 2: 32. 1832.
Cosmostigma acuminatum Wight, Icon. pl. Ind. orient. t. 1270. 1848.
E & Peninsular India.
Note: M. R. Almeida has provided the following combination :
Cosmostigma cordatum (Poir.) M. R. Almeida, Fl. Maharashtra 3(A&B) : 239. 2001 based on *Periploca cordata* Poir. in Lam., Encycl. 5: 191. 1804 which is *Hemidesmus indicus*. *Periploca cordata* Dennst., Schlüssel Hortus malab. 14. 1818 is *Cosmostigma racemosum*. cf. Manitz in Taxon 17: 496- 501. 1968 for valid names published in this work.

CRYPTOLEPIS R. Br., Asclepiadeae 58. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 69. 1811.

Cryptolepis buchananii Roem. & Schult., Syst. veg. 4: 409. 1819; Wight, Icon. pl. Ind. orient. t. 494. 1841 & Ill. Ind. Bot. t. 182, f.8. 1850; Hook.f., Fl. Brit. India 4: 5. 1883.
Throughout India.

Cryptolepis grandiflora Wight, Icon. pl. Ind. orient. t. 831. 1844- 45 & Ill. Ind. Bot. 2: 169,t.155 b, f. E. 1850; Hook.f., Fl. Brit. India 4: 5. 1883.
Andaman & Nicobar Islands, E & S India.

Cryptolepis sinensis (Lour.) Merr. in Philipp. J. Sci. 15. 254. 1919; Bullock in Kew Bull. 1955: 282. 1955.
Pergularia sinensis Lour., Fl. cochinch. 169. 1790.
Cryptolepis elegans Wall. [Numer. List 1639.1829] ex G. Don, Gen. hist. 4: 82. 1837; Hook.f., Fl. Brit. India 4: 6. 1883.
Andaman Islands, C. E. NE & S. India, Sikkim terai, tropical E. Himalaya.

CRYPTOSTEGIA R. Br. in Bot. Reg. (Ed. Ker Gawl.) 5: t. 435. 1820.

Cryptostegia grandiflora R. Br. in Bot. Reg. (Ed. Ker Gawl.) 5: t. 435. 1820; Wight, Icon. pl. Ind. orient. t. 832. 1844- 45 & Ill. Ind. Bot. 2: 182, f. 9. 1850; Hook.f., Fl. Brit. India 4: 6. 1883.
Naturalised and growing wild almost all over India.

Cryptostegia madagascariense Bojer, Hortus mauril. 212. 1837; Chandrab. & N.C. Nair, Fl. Coimbatore 177. 1988.
Cultivated.
Note: Bakh. f. in Blumea 6: 369. 1950 opines that this species may be conspecific with *Cryptostegia grandiflora* R. Br.

CYNANCHUM L., Sp. pl. 212. 1753.

Cynanchum acutum L., Sp. pl. 212. 1753; Hook.f., Fl. Brit. India 4: 24. 1883.
ssp. **acutum**.
Himalayas.

ssp. **sibiricum** (Willd.) Rech.f., Fl. iran. 73: 9. 1970.
Cynanchum sibiricum Willd. in Ges. Naturf. Freunde Berlin Neue Schriften 2: 124. 1799.
W. Himalaya.

Cynanchum alatum Wight & Arn. in Wight, Contr. bot. India 57. 1834; Hook.f., Fl. Brit. India 4: 23. 1883.
SW. Ghats.

Cynanchum arnottianum Wight, Contr. bot. India 58. 1834; Hook.f., Fl. Brit. India 4: 22. 1883.
Vincetoxicum arnottianum (Wight) Wight, Icon. pl. Ind. orient. t. 1614. 1850.
W. Himalaya.

Cynanchum auriculatum Royle ex Wight, Contr. bot. India 58. 1834; Hook.f., Fl. Brit. India 4: 25. 1883.
Vincetoxicum auriculatum (Royle ex Wight) Kuntze, Revis. gen. pl. 2: 424. 1891.
Temperate Himalayas.

Cynanchum callialatum Buch.-Ham. ex Wight, Contr. bot. India 56. 1834 & Icon. pl. Ind. orient. t. 1279. 1848; Hook.f., Fl. Brit. India 4: 24. 1883.
E. NE & Peninsular India.

 # Cynanchum canescens (Willd.) K. Schum. in Engl. & Prantl, Nat. Pflanzenfam. IV, 2 (123 – 125): 252. 1895.
Asclepias canescens Willd. in Ges. Naturf. Freunde Berlin Neue Schriften 3: 418. 1801.
Cynanchum glaucum Wall. ex Wight, Contr. bot. India 58. 1834; Hook. f., Fl. Brit. India 4: 22. 1883.
Vincetoxicum canescens (Willd.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 523. 1844.
Vincetoxicum glaucum (Wall. ex Wight) Rech. f., Fl. iran. 73: 13. 1970.
Vincetoxicum hirundinaria ssp. *glaucum* (Wall. ex Wight) H. Hara in H. Hara et al., Enum. fl. pl. Nepal 3: 89. 1982.
Temperate Himalayas.

Cynanchum corymbosum Wight, Contr. bot. India 56. 1834; Hook.f., Fl. Brit. India 4: 24. 1883.
E Himalaya, NE India, Nicobar Islands.

Cynanchum dalhousiae Wight, Contr. bot. India 55. 1834; Hook.f., Fl. Brit. India 4: 25. 1883.
W temperate Himalaya.

Cynanchum heydei Hook.f., Fl. Brit. India 4: 25. 1883.
Vincetoxicum heydei (Hook.f.) Kuntze, Revis. gen. pl. 2: 424. 1891.
NW Himalaya.

Cynanchum jacquemontianum Decne. in Ann. Sci. Nat., Bot., ser. 2, 9: 334. 1838 & in Jacquem., Voy. Inde 4: 106, t.112. 1844; Hook.f., Fl. Brit. India 4: 26. 1883.
NE India, NW Himalaya.

Cynanchum roylei Wight, Contr. bot. India 58. 1834; Hook. f., Fl. Brit. India 4: 25. 1883.
Vincetoxicum roylei (Wight) Kuntze, Revis. gen. pl. 2: 425. 1891.
W Himalaya.

Cynanchum triangulare M. G. Gilbert, W. D. Stevens & P. T. Li in Novon 5: 9. 1995.
Cynanchum deltoideum Hook.f., Fl. Brit. India 4: 24. 1883 non Hance, 1866.
Vincetoxicum deltoideum Kuntze, Revis. gen. pl. 2: 424. 1891 ('deltodeum').
Meghalaya.

Cynanchum tunicatum (Retz.) Alston in Trimen, Handb. fl. Ceylon 6 (Suppl.): 194. 1931.
Periploca tunicata Retz., Observ. bot. 2: 15. 1781.
Cynanchum pauciflorum R. Br. in Mem. Wern. Nat. Hist. Soc. 1: 45. 1811; Wight, Icon. pl. Ind. orient. t. 354. 1840; Hook.f., Fl. Brit. India 4: 23. 1883.
Peninsular India.

Cynanchum vincetoxicum (L.) Pers., Syn. pl. 1: 274. 1805; Hook. f., Fl. Brit. India 4: 22. 1883.
Asclepias vincetoxicum L., Sp. pl. 216. 1753.
Vincetoxicum hirundinaria Medik. in Hist. & Commentat. Acad. Elect. Sci. Theod.-Palat. 6: 404. 1790; Markgr. in J. Linn. Soc., Bot. 64: 374. 1971.
Temperate Himalayas.

Cynanchum wallichii Wight, Contr. bot. India 56. 1834; Hook.f., Fl. Brit. India 4: 23. 1883.
Andaman & Nicobar Islands, NE India.

DECALEPIS Wight & Arn. in Wight, Contr. bot. India 64. 1834; Venter & R. L. Verh. in Taxon 46: 712. 1997.
Brachylepis Wight & Arn. in Wight, Contr. bot. India 63. 1834 non C. A. Mey., 1829.
Baeolepis Decne. ex Moq. in DC., Prodr. (Ed. A. DC.) 13(2): 216. 1849.
Janakia J. Joseph & V. Chandras. in J. Indian Bot. Soc. 57: 308. 1978.

Decalepis arayalpathra (J. Joseph & V. Chandras.) Venter in Taxon 46: 712. 1997.
Janakia arayalpathra J. Joseph & V. Chandras. in J. Indian. Bot. Soc. 57: 309. 1978.
Kerala, Tamilnadu.

Decalepis hamiltonii Wight & Arn. in Wight, Contr. bot. India 64. 1834;
Wight, Icon. pl. Ind. orient. t. 1285. 1848; Hook.f., Fl. Brit. India 4: 11. 1883.
SW Ghats (Karnataka, Tamilnadu).

Decalepis nervosa (Wight & Arn.) Venter in Taxon 46: 712. 1997.
Brachylepis nervosa Wight & Arn. in Wight, Contr. bot. India 64. 1834; Hook.f., Fl. Brit. India 4: 7. 1883.
Baeolepis nervosa (Wight & Arn.) Decne. ex Moq. in DC., Prodr. (Ed. A. DC.) 13(2): 216. 1849 in adnot.; A. N. Henry in Bull. Bot. Surv. India 9: 290. 1967.
Kerala, Tamilnadu.

DESMIDORCHIS Ehrenb. in Linnaea 4: 94. 1829; M. G. Gilbert & J. Raynal in Adansonia ser. 2, 19: 322. 1980.
Boucerosia Wight & Arn. in Wight, Contr. bot. India 34. 1834.
Hutchinia Wight & Arn. in Wight, Contr. bot. India 34. 1834

Desmidorchis aucheriana (Decne.) Kuntze, Revis. gen. pl. 2: 418. 1891.
Boucerosia aucheriana Decne. in DC., Prodr. (Ed. A. DC.) 8: 649. 1844; Hook.f., Fl. Brit. India 4: 78. 1883.
Caralluma aucheriana (Decne.) A. P. Jagtap & N. P. Singh in Fasc. fl. India 24: 208. 1999.
N India, NW Himalaya.

Desmidorchis crenulata (Wall.) Decne. in Ann. Sci. Nat. Bot. ser. 2, 9: 265. 1838.
Caralluma crenulata Wall., Pl. asiat. rar. 1:6, t. 7. 1829.
Boucerosia crenulata (Wall.) Wight & Arn. in Wight, Contr. bot. India 34. 1834; Hook.f., Fl. Brit. India 4: 77. 1883.
E & S India.

Desmidorchis diffusa (Wight) Kuntze, Revis. gen. pl. 2: 418. 1891.
Boucerosia diffusa Wight, Icon. pl. Ind. orient. t. 1599. 1850; Hook.f., Fl. Brit. India 4: 78. 1883.
Caralluma diffusa (Wight) N.E. Br. in Gard. Chron. 2: 369. 1892; Gamble, Fl. Madras 2: 606. 1967 (Repr.).
S India.

Desmidorchis indica (Wight & Arn.) Kuntze, Revis. gen. pl. 2: 418. 1891.
Hutchinia indica Wight & Arn. in Wight, Contr. bot. India 34. 1834.
Boucerosia hutchinia Decne. in DC., Prodr. (Ed. A. DC.) 8: 649. 1839 ('hirchinia'); Hook.f., Fl. Brit. India 4: 78. 1883.
Caralluma indica (Wight & Arn.) N. E. Br. in Gard. Chron. 2: 369. 1892; Gamble, Fl. Madras 2: 606. 1967 (Repr.).
S India.

Desmidorchis pauciflora (Wight) Decne. in Ann. Sci. Nat. Bot. ser. 2, 9: 266. 1838.
Boucerosia pauciflora Wight in Madras J. Lit. Sci. 6: 473. 1837; Hook.f., Fl. Brit. India 4: 78. 1883.
Caralluma pauciflora (Wight)) N. E. Br. in Gard. Chron. 2: 278. 1892; Gamble, Fl. Madras 2: 606. 1967 (Repr.).
Tamilnadu.

Desmidorchis umbellata (Roxb.) Decne. in Ann. Sci. Nat. Bot. ser. 2, 9: 266. 1838.
Stapelia umbellata Roxb., Pl. Coromandel 3: 36, t. 241. 1815.
Caralluma umbellata (Roxb.) Haw., Syn. pl. succ. 47. 1812; Gamble, Fl. Madras 2: 605. 1967 (Repr.).
Boucerosia umbellata (Roxb.) Wight & Arn. in Wight, Contr. bot. India 34. 1834; Hook.f., Fl. Brit. India 4: 77. 1883.
E & S India.

DISCHIDIA R. Br., Asclepiadeae 21.1810 & in Mem. Wern. Nat. Hist. Soc. 1: 32. 1811.
Micholitzia N. E. Br. in Bull. Misc. Inform. 1909: 358. 1909.

Dischidia albiflora Griff., Not. pl. asiat. 4: 47. 1854; Rintz in Blumea 26: 94. 1980.
Assam.

Dischidia benghalensis Colebr. in Trans. Linn. Soc. London 12: 357, t. 15. 1818; Hook.f., Fl. Brit. India 4: 50. 1883.
Andaman & Nicobar Islands, E Himalaya, NE India.

Dischidia imbricata (Blume) Steud., Nomencl. bot. ed. 2. 1: 519. 1840; Rintz in Blumea 26: 91. 1980.
Conchophyllum imbricatum Blume, Bijdr. 1060. 1826; Hook.f., Fl. Brit. India 4: 51. 1883, pro syn.
NE India.

Dischidia khasiana Hook.f., Fl. Brit. India 4: 50. 1883.
Meghalaya.

Dischidia major (Vahl) Merr., Interpr. Herb. amboin. 437. 1917; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 135. 1986.
Collyris major Vahl in Skr. Naturhist - Selsk. 6: 110. 1810.
Dischidia rafflesiana Wall., Pl. asiat. rar. 2: 35, t. 142. 1831; Hook.f., Fl. Brit. India 4: 50. 1883.
Andaman & Nicobar Islands, NE India.

Dischidia micholitzii N. E. Br. in Bull. Misc. Inform. 1913: 357. 1913 & in Hooker's Icon. Pl. ser. 5, 31: t. 3018. 1922; Kanjilal et al., Fl. Assam 3: 537. 1939.
NE India.

Dischidia nicobarica Didr. in Vidensk. Meddel. Dansk Naturhist. Foren. Kjøbenhavn 189. 1854; B.D. Jacks., Index kew. 1: 778. 1895.
Nicobar Islands.

Dischidia nummularia R. Br., Prodr. 461. 1810; Hook. f., Fl. Brit. India 4: 49. 1883.
Andaman & Nicobar Islands, E & NE India.

Dischidia obcordata (N. E. Br.) J. F. Maxwell & Donkelaar in Nat. Hist. Bull. Siam Soc. 39: 78. 1991.
Micholitzia obcordata N. E. Br. in Bull. Misc. Inform. 1909: 358. 1909; S.L. Kapoor in J. Bombay Nat. Hist. Soc. 64: 396. 1966.
Hoya manipurense Deb in J. Indian Bot. Soc. 34: 50. 1955.
Antiostelma manipurense (Deb) P.T. Li in Novon 2: 219. 1992.
NE India.

DITTOCERAS Hook. f. in Hooker's Icon. Pl. ser. 3, 15. 1883.

Dittoceras andersonii Hook. f. in Hooker's Icon. Pl. ser. 3, 15: t. 1422. 1883 & Fl. Brit. India 4: 48. 1883.
E Himalaya.

DREGEA E. Mey. in E. Mey. & Drège, Comm. pl. Afr. austr. 199. (1837) 1838.
WATTAKAKA Hassk. in Flora 40: 99. 1857.

Dregea volubilis (L. f.) Benth. ex Hook. f., Fl. Brit. India 4: 46. 1883.
Asclepias volubilis L. f., Suppl. pl. 170. 1782.
Hoya viridiflora R. Br. in Mem. Wern. Nat. Hist. Soc. 1:26. 1809; Wight, Icon. pl. Ind. orient. t. 586. 1840 - 43.
Marsdenia volubilis (L. f.) T. Cooke, Fl. Bombay 2: 166. 1904 (2: 231. 1967, Repr.).
Wattakaka volubilis (L.f.) Stapf in Curtis, Bot. Mag. (Ed. Stapf) 148: subt. 8976. 1923; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 65. 1988.
var. **volubilis**.
Throughout tropical India.

var. **angustifolia** Hook. f., Fl. Brit. India 4: 47. 1883.
Marsdenia lanceolata T. Cooke, Fl. Bombay 2: 167. 1904 (2: 231. 1967, Repr.).
Marsdenia volubilis var. *angustifolia* (Hook. f.) Blatt. & McCann in J. Bombay Nat. Hist. Soc. 36: 532. 1933.
Dregea angustifolia (Hook. f.) Santapau & Irani in Bot. Mem. Univ. Bombay 4: 41. 1962.
Dregea lanceolata (T. Cooke) Santapau & Wagh in Bull. Bot. Surv. India 5: 106. (1963) 1964.
Wattakaka lanceolata (T. Cooke) A.P. Jagtap & N.P. Singh in Kew Bull. 46: 359. 1991.
Wattakaka angustifolia (Hook. f.) S.D. Deshp. in S.D.Deshp., B.D. Sharma & M.P. Nayar, Fl. Mahabaleshwar & adj., Maharashtra 1: 369. 1993.
E to Peninsular India.

var. **lacuna** (Buch.- Ham. ex Wight) Hook. f., Fl. Brit. India 4: 47. 1883.
Hoya lacuna Buch.-Ham. ex Wight, Contr. bot. India 39. 1834.
Wattakaka volubilis var. *lacuna* (Buch.- Ham. ex Wight) M.A. Rahman & Wilcock in J. Econ. Taxon. Bot. 13: 183. 1989.
Almost throughout India.

FINLAYSONIA Wall., Pl. asiat. rar. 2: 48, t. 162. 1831.

Finlaysonia maritima (Blume) Backer ex K. Heyne, Nutt. pl. Ned.-Ind. ed. 2. 2: 1293. 1927; Raizada in Indian Forester 84: 484. 1958.
Secamone maritima Blume, Bijdr. 1050. 1827.
Curoua obovata Buch.- Ham. in Voigt, Hort. suburb. Calcutt. (Ed. Griff.) 544. 1845.
Finlaysonia obovata (Buch.- Ham.) Wall., Pl. asiat. rar. 2: 48,t. 162. 1831; Hook. f., Fl. Brit. India 4: 7. 1883.
Andaman & Nicobar Islands, E India

FREREA Dalzell in J. Linn. Soc., Bot. 8: 10, t. 3. 1864.

Frerea indica Dalzell in J. Linn. Soc., Bot. 8: 10, t. 3. 1864; Hook. f., Fl. Brit. India 4. 76. 1883.
Caralluma frerei C.D. Rowley in Natl. Cact. Succ. J. 13: 78. 1958.
Boucerosia frerei (C.D. Rowley) Meve & Liede in Pl. Syst. Evol. 234: 200. 2002.
NW Ghats (Maharashtra).
Note: M. R. Almeida, Fl. Maharashtra 3 (A & B) : 241. 2001 provides a new name for this speis i.e., *Desmidorchis dalzellii*. He follows the treatment of M. G. Gilbert & J. Raynal in Adansonia ser. 2, 19: 322. 1980; though, those authors have treated *Frerea* Dalzell as a synonym under *Desmidorchis* alongwith *Boucerosia* Wight & Arn. & *Hutchinia* Wight & Arn. they have not provided any reason for doing so. Bullock in E.R. Farr et al., Index nom. gen. (pl.) 1: 689. 1979, Brummitt, Vasc. pl. fam.& gen. 176. 1992 and Mabb. (Plant-book 289. 1998) have all accepted *Frerea* as a valid genus. The same view has been followed in this work.

GENIANTHUS Hook.f., Fl. Brit. India 4: 15. 1883.

Genianthus crassifolius (Wight & Arn.) Hook.f., Fl. Brit. India 4: 16. 1883.
Toxocarpus crassifolius Wight & Arn. in Wight, Contr. bot. India 61. 1834.
Note: Hook. f. reported this species from Silhet – now in Bangladesh; A. P. Jagtap & N. P. Singh, Fasc. fl. India 24: 273. 1999 say it is endemic in Sikkim (!) though they have indicated the type is from *Silhet*.

Genianthus horei Vasudeva Rao in J. Econ. Taxon. Bot. 6: 732. 1985.
Nicobar Islands.

Genianthus laurifolius (Roxb.) Hook.f., Fl. Brit. India 4: 16. 1883.
Asclepias laurifolia Roxb., Fl. Ind. (Ed. Carey) 2: 49. 1832.
Toxocarpus laurifolius (Roxb.) Wight, Contr. bot. India 61. 1834 &
Icon. pl. Ind. orient. t. 598. 1840- 1843.
Andaman & Nicobar Islands, E Himalaya, Peninsular India.

GONGRONEMA (Endl.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 624. 1844.
GYMNEMA subg. GONGRONEMA Endl., Gen. pl. 595. 1838.

Gongronema nepalense (Wall.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 624. 1844; Hook.f., Fl.Brit. India 4: 33. 1883; M.A. Rahman & Wilcock in Blumea 34: 520. 1990.
Gymnema nepalense Wall., Tent. fl. napal. 2: 50, t. 38. 1826.
Gymnema sagittatum Wall., Tent. fl. napal. 2: 50. 1826.
Gongronema sagittatum (Wall.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 624. 1844.
Gongronema nepalense var. *sagittatum* (Wall.) Hook.f., Fl. Brit. India 4: 33. 1883.
NE India, subtropical Himalayas.

Gongronema thomsonii (Hook. f.) K. M. Matthew in Kew Bull. 34: 68. 1979.
Gymnema ? thomsonii Hook.f., Fl. Brit. India 4: 32. 1883.
E Himalaya.

Gongronema ventricosum Hook.f., Fl. Brit. India 4: 34. 1883.
var. **ventricosum.**
Meghalaya.

var. **bhutanicum** H. Hara in J. Jap. Bot. 45: 194. 1970.
E Himalaya ?

GYMNEMA R. Br., Asclepiadeae 22. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 33. 1811.
GYMNEMA sect. BIDARIA Endl., Gen. pl. 595. 1838.
BIDARIA (Endl.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 623. 1844.

Gymnema acuminatum Wall., Tent. fl. napal. 2: 50. 1826; Hook.f., Fl.Brit. India 4: 30. 1883; Kanjilal et al., Fl. Assam 3: 287. 1939.
E & NE India.

Gymnema alterniflorum (Lour.) Merr. in Trans. Amer. Philos. Soc. n.s. 24: 318. 1935; K.N. Subram. in Curr. Sci. 37: 595. 1968; K. K. N. Nair in Indian J. Forest. 9: 205. 1986.
Apocynum alterniflorum Lour., Fl. cochinch. 1: 168. 1790.
Tamilnadu.

Gymnema cuspidatum (Thunb.) Kuntze, Revis. gen. pl. 2: 420. 1891; Santapau in Bot. Mem. Univ. Bombay 4: 50. 1962.
Cynanchum cuspidatum Thunb., Observ. Cynanch. 50. 1821.
Gymnema pergularioides Wight & Gardner in Thwaites, Enum. pl. zeyl. 198. 1860; Hook.f., Fl. Brit. India 4: 32. 1883; T. Cooke, Fl. Bombay 2: 225. 1967 (Repr.).
Bidaria cuspidata (Thunb.) H. Huber in Abeyw., (Ed.) Rev. handb. fl. Ceylon 1(1) : 47. 1973 & in Dassan. & Fosberg (Eds.), Rev. handb. fl. Ceylon 4: 102. 1983.
Karnataka, Maharashtra.

Gymnema elegans Wight & Arn. in Wight, Contr. bot. India 46. 1834; Wight, Icon. pl. Ind. orient. t. 830. 1844- 45; Hook.f., Fl. Brit. India 4: 32. 1883.
Bidaria elegans (Wight & Arn.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 623. 1844.
S India.

Gymnema indicum (M.A. Rahman & Wilcock) Karthik. & Moorthy comb. nov.
Bidaria indica M.A. Rahman & Wilcock in Blumea 34: 99. 1989 & 520. 1990; K. Ravik., Subramani & Goraya in Indian J. Forest. 22: 273. 1999.
Gymnema montanum var. *beddomei* Hook.f., Fl. Brit. India 4: 32. 1883.
Gymnema montanum var. *pubiflora* Hook.f., Fl. Brit. India 4: 32. 1883.
Bidaria montana var. *pubiflora* (Hook.f.) A.P. Jagtap & N.P. Singh in Biovigyanam 16: 62. 1990.
S India.

Gymnema inodorum (Lour.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 551. 1844; P.T. Li et al., Fl. China – Asclepiadaceae, *online*.
Cynanchum inodorum Lour., Fl. cochinch. 1: 166. 1790.
Asclepias tingens Roxb., Pl. Coromandel 3: 34, t. 239. 1815.
Gymnema tingens (Roxb.) Spreng., Syst. veg. ed. 16. 1: 844. (1824) 1825; Hook.f., Fl. Brit. India 4: 31. 1883.
Gymnema tingens var. *cordifolia* Wight, Icon. pl. Ind. orient. t. 593. 1843.
Bidaria tingens (Roxb.) Decne. in DC., Prodr. (Ed. A. DC.) 8: 623. 1844.

Bidaria inodora Decne. in DC., Prodr. (Ed. A. DC.) 8: 624. 1844; Hook.f., Fl. Brit. India 4: 33. 1883*.
Andaman Islands, E NE & S India, Tropical Himalayas.
Note: * Hook. f. included this under 'Doubtful species' from sandy places near (Pondicherry) Puducherry.

Gymnema khandalense Santapau in Kew Bull. 1948: 486. 1949.
Bidaria khandalense (Santapau) A. P. Jagtap & N. P. Singh in Biovigyanam 16: 62. 1990.
Maharashtra.

Gymnema lactiferum (L.) R. Br. ex Schult., Syst. veg. 6: 57. 1820; Hook.f., Fl. Brit. India 4: 30. 1883.
Asclepias lactifera L., Sp. pl. 216. 1753.
var. **lactiferum**.
NE India.

var. **khasianum** Hook.f., Fl. Brit. India 4: 31. 1883.
Meghalaya.

Gymnema latifolium Wall. ex Wight, Contr. bot. India 45. 1834; Hook.f., Fl. Brit. India 4: 30. 1883; Kanjilal et al., Fl. Assam 3: 288. 1939.
Bidaria latifolia (Wall. ex Wight) P. T. Li in J. S. China Agric. Univ. 12(3): 39. 1991.
Andaman & Nicobar islands, NE India.

Gymnema lushaiense M.A. Rahman & Wilcock in J. Econ. Taxon. Bot. 13: 181, f. 1, a–c. 1989.
Mizoram.

Gymnema ? macranthum Hook. f. in Hooker's Icon. Pl. ser. 3, 15: t. 1436. 1883-1885 & Fl. Brit. India 4: 733. 1885.
E Himalaya.

Gymnema mohanramii Karthik. & Moorthy nom. nov.
Gymnema hirsutum Wight & Arn. in Wight, Contr. bot. India 44. 1834 non Wall., 1826; Wight, Icon. pl. Ind. orient. t. 1272. 1848; Hook.f., Fl. Brit. India 4: 29. 1883.
var. **mohanramii**.
C E & S India, Upper Gangetic Plains.
Note: The specific epithet is in honour of Prof. H.Y. Mohanram, Delhi University, in recognition of his valuable contribution to Indian Botany.

var. **decaisneanum** (Wight) Karthik. & Moorthy comb. nov.
Gymnema decaisneanum Wight, Icon. pl. Ind. orient. t. 1271. 1848.
Gymnema hirsutum sensu Hook.f., Fl. Brit. India 4: 29. 1883 p.p. non Wight & Arn., 1834 nec Wall., 1826.
Gymnema hirsutum var. *decaisneanum* (Wight) Haines, Forest fl. Chota Nagpur 436. 1910.
E India.

Gymnema montanum (Roxb.) Hook.f., Fl. Brit. India 4: 31. 1883.
Asclepias montana Roxb., Fl. ind. (Ed. Carey) 2: 45. 1832.
Bidaria montana (Roxb.) M.A. Rahman & Wilcock in Blumea 34: 99. 1989.
C N & Peninsular India

Gymnema sylvestre (Retz.) R. Br. ex Schult., Syst. veg. 6: 57. 1820; Wight, Icon. pl. Ind. orient. t. 349. 1840; Hook.f., Fl. Brit. India 4: 29. 1883.
Periploca sylvestris Retz., Observ. bot. 2: 15. 1781.
E N & Peninsular India.

HEMIDESMUS R. Br., Asclepiadeae 45. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 56. 1811.

Hemidesmus indicus (L.) W. T. Aiton, Hortus kew. ed. 2. 2: 75. 1811; Hook.f., Fl. Brit. India 4: 5. 1883.
Periploca indica L., Sp. pl. 211. 1753.
var. **indicus.**
Throughout India

var. **pubescens** (Wight & Arn.) Hook.f., Fl. Brit. India 4: 5. 1883.
Hemidesmus pubescens Wight & Arn. in Wight, Contr. bot. India 63. 1834; Wight, Icon. pl. Ind. orient. t. 1320. 1848.
Almost throughout India.

HETEROSTEMMA Wight& Arn. in Wight, Contr. bot. India 42. 1834.
Oianthus Benth. in Hooker's Icon. Pl. ser. 3, 12: t. 1191. 1876.

Heterostemma alatum Wight, Contr. bot. India 42. 1834; Hook.f., Fl. Brit. India 4: 47. 1883.
Himalayas, NE India, Upper Gangetic Plains.
Note: A.P. Jagtap & N. P. Singh in Fasc. fl. India 24: 246 – 248 indicate'Goa and Maharashtra' too.

Heterostemma beddomei (Hook. f.) Swarupan. & Mangaly in Bot. J. Linn. Soc. 101: 254. 1989.
Oianthus beddomei Hook. f., Fl. Brit. India 4: 49. 1883.
SW Ghats (Karnataka, Kerala).

Heterostemma dalzellii Hook.f., Fl. Brit. India 4: 48. 1883.
Heterostemma wallichii Dalzell & A. Gibson, Bombay fl. 152. 1861 non Wight, 1834.
Goa, Maharashtra.

Heterostemma deccanense (Talbot) Swarupan. & Mangaly in Bot. J. Linn. Soc. 101: 255. 1989.
Oianthus deccanensis Talbot, For. fl. Bombay 2: 260. 1911.
Maharashtra.

Heterostemma disciflorum (Hook.f.) Swarupan. & Mangaly in Bot. J. Linn. Soc. 101: 256. 1989.
Oianthus disciflorus Hook.f., Fl. Brit. India 4: 49. 1883; R.R.V. Raju & Patil. in J. Bombay Nat. Hist. Soc. 84: 259, f. 1. 1987.
Peninsular India.

Heterostemma stellatum Hook.f., Fl. Brit. India 4: 47. 1883.
E Himalaya, Meghalaya.

Heterostemma tanjorense Wight & Arn. in Wight, Contr. bot. India 42. 1834; Wight, Icon. pl. Ind. orient. t. 348. 1840; Hook.f., Fl. Brit. India 4: 47. 1883.
Tamilnadu.

Heterostemma urceolatum Dalzell in Hooker's J. Bot. Kew Gard. Misc. 4: 295. 1852; Swarupan. & Mangaly in Bot. J. Linn. Soc. 101: 256. 1989.
Oianthus urceolatus (Dalzell) Benth. in Hooker's Icon. Pl. ser. 3, 12: t. 1191. 1876; Hook.f., Fl. Brit. India 4: 49. 1883.
Karnataka, Maharashtra.

Heterostemma vasudevanii Swarupan. & Mangaly in Bot. J. Linn. Soc. 101: 257, f. 3, A-G. 1989.
SW Ghats (Kerala).

Heterostemma wallichii Wight, Contr. bot. India 42. 1834; Hook.f., Fl. Brit. India 4: 47. 1883.
C Himalaya, NE India.

HOLOSTEMMA R. Br., Asclepiadeae 31. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 42. 1811.

Holostemma ada-kodien Schult., Syst. veg. 6: 95. 1820; K.M. Matthew, Fl. Tamilnadu Carnatic 3: 949. 1983.
Sarcostemma annulare Roth, Nov. pl. sp. 178. 1821.
Holostemma rheedianum Spreng., Syst. veg. ed. 16. 1: 851. (1824) 1825.
Holostemma rheedei Wall., Pl. asiat. rar. 2: 51. 1831; Wight, Icon. pl. Ind. orient. t. 597. 1840- 43; Hook.f., Fl. Brit. India 4: 21. 1883.
Asclepias annularia Roxb., Fl. ind. (Ed. Carey) 2: 37. 1832.
Holostemma brunonima Royle, Ill. bot. Himal. Mts. 276, t. 66, f.2. 1835-36.
Holostemma annulare (Roth) K. Schum. in Engl. & Prantl, Nat. Pflanzenfam. IV, 2: 250, f. 71 J-K. 1895.
Throughout India.

HOYA R. Br., Asclepiadeae 15. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 26. 1811.

Hoya acuminata (Wight) Benth. in Benth. & Hook. f., Gen. pl. 2: 777. 1876;
Hook.f., Fl. Brit. India 4: 53. 1883.
Pterostelma acuminatum Wight, Contr. bot. India 39. 1834.
Meghalaya.

Hoya alexicaca (Jacq.) Moon, Cat.pl. Ceylon 21. 1824; Bullock in Kew Bull. 19: 146. 1964-65.
Asclepias alexicaca Jacq., Collectanea 2: 101. 1789.
Asclepias pendula Roxb., Fl. ind. (Ed. Carey) 2: 36. 1832.
Hoya pendula (Roxb.) Wight & Arn. in Wight, Contr. bot. India 36. 1834 quoad basionym, excl. descr.; Wight, Icon. pl. Ind. orient. t. 474. 1841; Hook.f., Fl. Brit. India 4: 61. 1883.
Hoya pallida Dalzell & A. Gibson, Bombay fl. 152. 1861.
Hoya iconum Santapau in J. Bombay Nat. Hist. Soc. 53: 504. 1956.
E to Peninsular India.

Hoya arnottiana Wight, Contr. bot. India 37. 1834; Hook.f., Fl. Brit. India 4: 60. 1883.
E Himalaya, NE India.

Hoya bhutanica Grierson & D.G. Long in Notes Roy. Bot. Gard. Edinburgh 37: 353. 1979.
E. Himalaya ?

Hoya diversifolia Blume, Bijdr. 1064. 1827; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 135. 1986.
Andaman & Nicobar Islands.

Hoya edenii King ex Hook.f., Fl. Brit. India 4: 53. 1883.
C to E Himalaya, NE India.

Hoya fusca Wall., Pl. asiat. rar. 1: 68, t. 75. 1830; Hook.f., Fl. Brit. India 4: 58. 1883.
C to E Himalaya, NE India.

Hoya globulosa Hook. f. in Gard. Chron. 2: 732, f. 115. 1882 & Fl. Brit. India 4: 60. 1883.
Himalayas, NE India.

Hoya griffithii Hook.f., Fl. Brit. India 4: 59. 1883.
NE India.

Hoya kanyakumariana A. N. Henry & Swamin. in J. Bombay Nat. Hist. Soc. 75: 462. (1978) 1979.
Tamilnadu.

Hoya lanceolata Wall. ex D. Don, Prodr. fl. nepal. 130. 1825; Hook.f., Fl. Brit. India 4: 54. 1883.
NE India, tropical Himalayas.

Hoya linearis Wall. ex D. Don, Prodr. fl. nepal. 130. 1825; Hook.f., Fl. Brit. India 4: 53. 1883.
var. **linearis.**
C to E Himalaya, NE India.

var. **sikkimensis** Hook. f. in Curtis, Bot. Mag. (Ed. Hook.f.) 109: t. 6682. (Apr.) 1883 & Fl. Brit. India 4: 53. (June) 1883.
C to E Himalaya.

Hoya lobbii Hook.f., Fl. Brit. India 4: 54. 1883.
NE India.

Hoya longifolia Wall. ex Wight, Contr. bot. India 36. 1834; Hook.f., Fl. Brit. India 4: 56. 1883.
N & NE India, Nicobar Islands, Tropical Himalayas, Upper Gangetic plains.

Hoya multiflora Blume, Bijdr. 1064. 1825; Hook.f., Fl. Brit. India 4: 52. 1883; Kanjilal et al., Fl. Assam 3 : 302. 1939.
Nagaland.

Hoya nummularia Decne. ex Hook.f., Fl. Brit. India 4: 55. 1883.
Andaman Islands, Meghalaya.

Hoya obcordata Hook.f., Fl. Brit. India 4: 56. 1883.
E Himalaya.

Hoya oblanceolata Hook.f., Fl. Brit. India 4: 57. 1883.
Meghalaya.

Hoya ovalifolia Wight & Arn. in Wight, Contr. bot. India 37. 1834; Wight, Icon. pl. Ind. orient. t. 847. 1844 - 45; Hook.f., Fl. Brit. India 4: 60. 1883.
S India.

Hoya pauciflora Wight, Icon. pl. Ind. orient. t. 1269. 1848 ('parviflora'); Hook.f., Fl. Brit. India 4: 56. 1883.
N & S India.

Hoya polyneura Hook.f., Fl. Brit. India 4: 54. 1883.
E Himalaya, NE India.

Hoya retusa Dalzell in Hooker's J. Bot. Kew Gard. Misc. 4: 294. 1854; Hook.f., Fl. Brit. India 4: 56. 1883.
Peninsular India.

Hoya serpens Hook.f., Fl. Brit. India 4: 55. 1883.
E Himalaya.

Hoya teretifolia Griff. ex Hook.f., Fl. Brit. India 4: 54. 1883.
NE India.

Hoya thomsonii Hook.f., Fl. Brit. India 4: 61. 1883.
Meghalaya.

Hoya vaccinioides Hook.f., Fl. Brit. India 4: 56. 1883.
Arunachal Pradesh.

Hoya verticillata (Vahl) G. Don, Gen. hist. 4: 128. 1837; *Hook.f., Fl. Brit. India 4: 62. 1883; Veldkamp & B.Hansen in Blumea 41: 441. 1996.
Sperlingia parasitica Vahl in Skr. Naturhist. – Selsk. 6: 113. 1810.
Asclepias parasitica Roxb., Fl. ind. (Ed. Carey) 2: 42. 1832 non Hornem.,1819.

Hoya parasitica Wall. ex Wight, Contr. bot. India 37. 1834; Hook.f., Fl. Brit. India 4: 57. 1883.
Andaman Islands, C. E. & NE. India.
Note: *Hook.f. (op.cit.) included *Hoya verticillata* under 'Doubtful and excluded species'

Hoya wightii Hook.f., Fl. Brit. India 4: 59. 1883; Bullock in Kew Bull. 19: 146. 1964 - 65.
W. Ghats.

Doubtful species:

Hoya bella Hook. in Curtis, Bot. Mag. (Ld. Hook.) 74: t. 4402. 1848; Hook.f., Fl. Brit. India 4: 56. 1883.
Hook. f. (op. cit.) reported this species from Tenasserim (Myanmar). However, A. P. Jagtap & N. P. Singh in Fasc. fl. India 24:96. 1999 state, it is endemic in Manipur.

 # Hoya carnosa (L. f.) R. Br., Prodr. 460. 1810; *Hook.f., Fl. Brit. India 4: 62. 1883, pro syn
Asclepias carnosa L.f., Suppl. pl. 170. 1782.
Stapelia chinensis Lour., Fl. cochinch. 165. 1790.
Hoya chinensis (Lour.) C. Traill in Trans. Hort. Soc. London 7: 27. 1830.
India.
Note: * Hook.f., op. cit. reported this as *Chinese* and put under 'Doubtful & excluded species'

Hoya obtusifolia Wight, Contr. bot. India 38. 1834; Hook.f., Fl. Brit. India 4: 58. 1883.
Andman Islands ? (J.W. Helfer).
Note: Hook. f. cited Tenasserim or Andaman Islands based on J.W. Helfer's collection (and Penang). However, A.P. Jagtap & N.P. Singh in Fasc. fl. India 24: 113. 1999 indicate Andaman as the locality; but they state," There are only two herbarium sheets from *Malaya* which were studied." It is not clear how they concluded this species is from Andamans.

ISCHNOSTEMMA King & Gamble in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 74: 532. 1908.

Ischnostemma carnosum (R. Br.) Merr. & Rolfe in Philipp. J. Sci. 3: 121. 1908; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 135. 1986.
Oxystelma carnosum R. Br., Prodr. 462. 1810.
Nicobar Islands.

LEPTADENIA R. Br., Asclepiadeae 23. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 34. 1811.

Leptadenia pyrotechnica (Forssk.) Decne. in Ann. Sci. Nat. Bot. ser. 2, 9: 270. 1838; Bullock in Kew Bull. 1955: 289. 1955.
Cynanchum pyrotechnicum Forssk., Fl. aegypt.-arab. 53. 1775.
Leptadenia spartium Wight, Contr. bot. India 48. 1834; Hook.f., Fl. Brit. India 4: 64. 1883.
Throughout India.

Leptadenia reticulata (Retz.) Wight & Arn. in Wight, Cat. Indian pl. 89. 1834 & Contr. bot. India 47. 1834; Wight, Icon. pl. Ind. orient. t. 350. 1840; Hook.f., Fl. Brit. India 4: 63. 1883.
Cynanchum reticulatum Retz., Observ. bot. 2:15. 1781.
Throughout India.

MARSDENIA R. Br., Asclepiadeae 17. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 28. 1811.
STEPHANOTIS Thouars, Gen. nov. madagasc. 11. 1806.

Marsdenia brunoniana Wight & Arn. in Wight, Contr. bot. India 40. 1834; Wight, Icon. pl. Ind. orient. t. 356. 1840; Hook.f., Fl. Brit. India 4: 36. 1883.
S. India.

Marsdenia calesiana Wight, Contr. bot. India 41. 1834; Hook.f., Fl. Brit. India 4: 37. 1883.
C to E Himalaya.

Marsdenia eriocarpa Hook.f., Fl. Brit. India 4: 35. 1883.
Assam.

Marsdenia floribunda (Brongn.) Schltr. in Urb., Symb. antill. 1: 275. 1899.
Stephanotis floribunda Brongn. in Ann. Sci. Nat. Bot. ser. 2, 7: 30. 1837; Prain, Bengal pl. 2: 515. 1963 (Repr.).
Cultivated and naturalised.

Marsdenia griffithii Hook.f., Fl. Brit. India 4: 36. 1883.
Meghalaya.

Marsdenia hamiltonii Wight, Contr. bot. India 41. 1834; Hook.f., Fl. Brit. India 4: 36. 1883.
E & N India, W Himalaya.

Marsdenia jenkinsii Hook.f., Fl. Brit. India 4: 36. 1883.
Assam.

Marsdenia lucida Edgew. ex Madden in J. Asiat. Soc. Bengal 17: 370. 1848; Hook.f., Fl. Brit. India 4: 36. 1883.
Himalayas, Upper Gangetic Plains.

Marsdenia raziana Yogan. & Subr. in Proc. Indian Acad. Sci. 83: 147. 1976; N. Sasidh. & Anto in J. Econ. Taxon. Bot. 21: 247. 1997.
Karnataka, Kerala.

Marsdenia roylei Wight, Contr. bot. India 40. 1834; Hook.f., Fl. Brit. India 4: 35. 1883.
Himalayas, NE India, Upper Gangetic Plains.

Marsdenia tenacissima (Roxb.) Moon, Cat. pl. Ceylon 21. 1824; Hook.f., Fl. Brit. India 4: 35. 1883.
Asclepias tenacissima Roxb., Pl. Coromandel 3: 35, t. 240. 1815 & Fl. ind. (Ed. Carey) 2: 51. 1832.
C E N NE & Peninsular India, W Himalaya.

Marsdenia thyrsiflora Hook.f., Fl. Brit. India 4: 37. 1883.
E & NE India.

Marsdenia tinctoria R. Br. in Mem. Wern. Nat. Hist. Soc. 1: 30. 1811 (preprint 1810); Wight, Icon. pl. Ind. orient. t. 589. 1843; Hook.f., Fl. Brit. India 4: 34. 1883.
E Himalaya, NE India; 'cultivated in Deccan and elsewhere in India' – Hook. f. op. cit.

Marsdenia tirunelvelica A. N. Henry & Subr. in J. Bombay Nat. Hist. Soc. 73: 186. 1976.
Tamilnadu.

Doubtful species:
Note: Hook.f., Fl. Brit. India 4: 37. 1883 treated *Marsdenia rotundifolia* Decne. in DC., Prodr. (Ed. A. DC.) 8: 615. 1844 as 'Doubtful species' with the note "Communicated from the Calcutta Garden to Paris Herb. by Griffith"

MYRIOPTERON Griff. in Calcutta J. Nat. Hist. 4: 385. 1844.

Myriopteron extensum (Wight) K. Schum. in Engl. & Prantl, Nat. Pflanzenfam. IV, 2: 215. 1895; Kanjilal et al., Fl. Assam 3: 279. 1939.
Streptocaulon extensum Wight, Contr. bot. India 65. 1834.
Myriopteron paniculatum Griff. in Calcutta J. Nat. Hist. 4: 385. 1844; Hook. f., Fl. Brit. India 4: 11. 1883.
E & NE India.

ODONTANTHERA Wight in Madras J. Lit. Sci. 7: 142. 1838.

Odontanthera varians (Stocks) Mabb. in Manilal (Ed.), Bot. & hist. hort. malab. 89. 1980.
Mastostigma varians Stocks in Icon. Pl. ser. 2. 9: t. 863. 1852.
Glossonema varians (Stocks) Hook. f., Fl. Brit. India 4: 16. 1883*.
Gujarat, Rajasthan.
Note: * Hook. f. reported this from Scind (presently in Pakistan).

ORTHANTHERA Wight, Contr. bot. India 48. 1834.

Orthanthera viminea Wight & Arn. in Wight, Contr. bot. India 48. 1834;
Hook. f., Fl. Brit. India 4: 64. 1883.
Apocynea viminea Wall., Numer. List 7478. 1832 nom. nud.
Along the base of Himalayas, NW India, Punjab to Uttar Pradesh.

OXYSTELMA R. Br., Asclepiadeae 29. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 40. 1811.

Oxystelma esculentum (L.f.) Sm. in Rees, Cycl. 1: 25. 1813; Hook. f., Fl. Brit. India 4: 17. 1883.
Periploca esculenta L.f., Suppl. pl. 168. 1782.
Periploca secamone L., Mant. pl. 2: 216. 1771.
Oxystelma secamone (L.) H. Karst., Deut. Fl. 1031. 1883; M.A. Rahman & Wilcock in Blumea 34: 520. 1990.
Sarcostemma esculentum (L.f.) R.W. Holm in Ann. Missouri Bot. Gard. 37: 482. 1950.
Sarcostemma secamone (L.) Bennet in Indian Forester 95: 692. 1969.
var. **esculentum.**
Throughout plains and lower hills of India.

var. **wallichii** (Wight) T. Cooke, Fl. Bombay 2: 153. 1904 (2: 217. 1967 Repr.).
Oxystelma wallichii Wight, Contr. bot. India 54. 1834.
Oxystelma secamone var. *wallichii* (Wight) M.A. Rahman & Wilcock in Blumea 34. 520. 1990.
Oxystelma esculentum sensu Hook. f., Fl. Brit. India 4: 17. 1883 p.p. non (L.f.) Rees, 1813.
Upper Gangetic Plains.

PENTASACHME Wall. ex Wight, Contr. bot. India 60. 1834.

Pentasachme caudatum Wall. ex Wight, Contr. bot. India 60. 1834, Hook. f., Fl. Brit. India 4: 28. 1883; M.A. Rahman & Wilcock in Blumea 36: 115. 1991.
NE India.

Pentasachme pulcherrima Grierson & D.G. Long in Notes Roy. Bot. Gard. Edinburgh 40: 123, f. 3. 1982; M.A. Rahman & Wilcock in Blumea 36: 116. 1991.
C to E. Himalaya.

Pentasachme wallichii Wight, Contr. bot. India 60. 1834; Hook. f., Fl. Brit. India 4: 28. 1883; M.A. Rahman & Wilcock in Blumea 36: 119, f. 5, a-c. 1991.
Himalayas, NE India.

PENTATROPIS Wight & Arn. in Wight, Contr. bot. India 52. 1834.

Pentatropis capensis (L.f.) Bullock in Kew Bull. 1955: 284. 1955.
Cynanchum capense L.f., Suppl. pl.168. 1782.
Asclepias microphylla Roxb., Fl. ind. (Ed. Carey) 2: 35. 1832.
Pentatropis microphylla (Roxb.) Wight & Arn. in Wight, Contr. bot. India 52. 1834; Wight, Icon. pl. Ind. orient. t. 352. 1840; Hook. f., Fl. Brit. India 4: 20. 1883.
Throughout India.

Pentatropis nivalis (J.F. Gmel.)D.V. Field & J.R.I. Wood in Kew Bull. 38: 213.1983.
Asclepias nivalis J. F. Gmel., Syst. nat. ed. 13. 2(1): 444. 1791 based on *Asclepias nivea* Forssk., Fl. aegypt.-arab. 51. 1775 nom. illegit. non L., 1753.
Pentatropis spiralis Decne. in Ann. Sci. Nat. Bot. ser. 2, 9: 327, t. 11E. 1838 non *Asclepias spiralis* Forssk., Fl. aegypt.-arab. 49. 1775; Hook. f., Fl. Brit. India 4: 19. 1883.
Pentatropis cynanchoides R. Br. in Salt, Voy. Abyss., App. 64. 1814.
C N & W India, Upper Gangetic Plains.

PERGULARIA L., Syst. nat. ed. 12. 2: 191. 1767 & Mant. pl. 1: 8, 53. 1767.

Pergularia daemia (Forssk.) Chiov., Res. sci. Somalia ital. 1:115. 1916; Blatt. & McCann in J. Bombay Nat. Hist. Soc. 36: 528. 1933; Santapau & Irani in Bot. Mem. Univ. Bombay 4: 74. 1962.
Asclepias daemia Forssk., Fl. aegypt.- arab. 51. 1775.
Cynanchum extensum Jacq., Misc. austriac. 2: 353. 1781.
Daemia extensa (Jacq.) R. Br. ex Schult., Syst. veg. 6: 112. 1820 ; Wight, Icon. pl. Ind. orient. t. 596. 1842; Hook. f., Fl. Brit. India 4: 20. 1883.
Pergularia extensa (Jacq.) N.E. Br. in Harv., Fl. cap. (Ed. Dyer) 4 (1) : 758. 1908.
Throughout India including tropical Himalayas.

Pergularia tomentosa L., Mant. pl. 1: 53. 1767; Bullock in Hutch. & Dalziel, Fl. W. trop. Afr. 2: 90. 1963; Parmar & A.K. Shrivast. in Indian J. Forest. 27: 153. 2004.
Rajasthan.

PERIPLOCA L., Sp. pl. 211. 1753.

Periploca aphylla Decne. in Jacquem., Voy. Inde 4: 109, t. 116. 1844; Hook. f., Fl. Brit. India 4: 12. 1883.
N to W India.

Periploca calophylla (Wight) Falc. in Proc. Linn. Soc., London 1: 115. 1841; Hook. f., Fl. Brit. India 4: 12. 1883.
Streptocaulon calophyllum Wight, Contr. bot. India 65. 1834.
ssp. **calophylla.**
NE India, subtropical & temperate Himalayas, Upper Gangetic Plains.

ssp. **forrestii** (Schltr.) Browicz in Arb. Kórnick. 11: 78. 1966; H. Hara in H. Hara et al., Enum. fl. pl. Nepal 3: 88. 1982.
Periploca forrestii Schltr. in Notes Roy.Bot. Card. Edinburgh 8: 15. 1913.
C to W Himalaya, Meghalaya.

Periploca hydaspidis Falc. in Proc. Linn. Soc. London 1: 115. 1841 & Ann. Mag. Nat. Hist. 8: 449. 1842; Hook. f., Fl. Brit. India 4: 12. 1883.
W Himalaya.

PHILIBERTIA Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 3: (ed. folio) 152 & (ed. quarto) 195, t. 230. 1819.

Philibertia viminalis (Sw.) A. Gray in Proc. Amer. Acad. Arts 12: 64. 1877; A. P. Jagtap & N. P. Singh in Indian J. Forest. 20: 101. 1997.
Asclepias viminalis Sw., Prodr. 53. 1788.
Cultivated.

RAPHIONACME Harv. in London J. Bot. 1: 22. 1842.

Raphionacme purpurea Harv., Thes. cap. 1: 41, t. 66. 1859; S.R. Sriniv. in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 87. 1987.
Cultivated.

RAPHISTEMMA Wall., Pl. asiat. rar. 2: 50. 1831.

Raphistemma pulchellum Wall., Pl. asiat. rar. 2: 50,t. 163. 1831; Hook. f., Fl. Brit. India 4: 19. 1883.
C to E Himalaya, E & NE India.

RIOCREUXIA Decne. in DC. Prodr. (Ed. A. DC.) 8: 641. 1844.

Riocreuxia bubalina Elliot, Fl. andhr. 59. 1859; Mabb. in Taxon 32: 87. 1983; R.A. Davies & K. Lloyd (Compilers), Kew index 1986: 145. 1986.
Andhra pradesh ?
Note: Doubtful species, not recorded in Hook. f., Fl. Brit. India, Gamble, Fl. Madras and A.P. Jagtap & N.P. Singh in Fasc. fl. India 24.

Riocreuxia nepalensis Radcl.-Sm. in Kew Bull. 21: 296. 1967.
C Himalaya.

SARCOLOBUS R. Br., Asclepiadeae 23. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 34. 1811.

Sarcolobus carinatus Wall. in Asiat. Res. 12: 570, t. 4. 1816; Hook. f., Fl. Brit. India 4: 28. 1883.
Andaman & Nicobar Islands, E & N India.

Sarcolobus globosus Wall. in Asiat. Res. 12: 568, t. 5. 1816; Hook. f., Fl. Brit. India 4: 27. 1883.
Andaman & Nicobar Islands, E & N India.

SARCOSTEMMA R. Br. in Mem. Wern. Nat. Hist. Soc. 1: 50. 1811.

Sarcostemma brunonianum Wight & Arn. in Wight, Contr. bot. India 59. 1834; Wight, Icon. pl. Ind. orient. t. 1282. 1848; Hook. f., Fl. Brit. India 4: 27. 1883.
SW Ghats (Karnataka, Tamilnadu).

Sarcostemma intermedium Decne. in DC., Prodr. (Ed. A. DC.) 8: 538. 1844; Hook. f., Fl. Brit. India 4: 27. 1883.
Sarcostemma viminale Wight & Arn. in Wight, Contr. bot. India 59. 1834 non R. Br., 1810; Wight, Icon. pl. Ind. orient. t. 1281. 1848.
C N & Peninsular India.

Sarcostemma viminale (L.) R. Br., Prodr. 464. 1810; Ali in Nasir & Ali (Eds.), Fl. Pakistan 150: 30. 1983.
Euphorbia viminalis L., Sp. pl. 452. 1753.
Asclepias acida Roxb., Fl. ind. (Ed. Carey) 2: 31. 1832.
Sarcostemma brevistigma Wight & Arn. in Wight, Contr. bot. India 59. 1834; Hook. f., Fl. Brit. India 4: 26. 1883.
Sarcostemma acidum (Roxb.) Voigt, Hort. suburb. Calcutt. (Ed. Griff.) 542. 1845; G. L. Shah, Fl. Gujarat 429. 1978.
ssp. viminale.
C E N & Peninsular India.

ssp. **stocksii** (Hook. f.) Ali in Nasir & Ali (Eds.), Fl. Pakistan 150: 31. 1983.
Sarcostemma stocksii Hook. f., Fl. Brit. India 4: 27. 1883; T. Cooke, Fl. Bombay 2: 223. 1967 (Repr.).
Gujarat, Karnataka, Maharashtra, Rajasthan.

SECAMONE R. Br., Asclepiadeae 44. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 55. 1811.

Secamone andamanica Goel & Vasudeva Rao in J. Bombay Nat. Hist. Soc. 85: 161,f. 1. 1988.
Andaman islands.

Secamone emetica (Retz.) R. Br. ex Schult., Syst. veg. 6: 124. 1820; Wight, Icon. pl. Ind. orient. t. 1283. 1848 & Ill. Ind. Bot. t. 155 b, f. D. 1850; Hook. f., Fl. Brit. India 4: 13. 1883.
Periploca emetica Retz., Observ. bot. 2: 14. 1781.
Peninsular India.

SESHAGIRIA Ansari & Hemadri in Indian Forester 97: 126. 1971.

Seshagiria sahyadrica Ansari & Hemadri in Indian Forester 97: 126. 1971; M. Radh.Rao, Yogan., S.N. Ramaswamy & Kesh.Murthy in High. Pl. Indian Subcont. 1: 19. 1990; Udayan in Indian Forester 133: 581. 2007.
W Ghats (Karnataka, Maharashtra, Tamilnadu).

STAPELIA L., Sp. pl. 217. 1753.

Stapelia gigantea N. E. Br. in Gard. Chron. 1: 684, f. 112. 1877; S. R. Sriniv. in A. N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 88. 1987.
Cultivated.

Stapelia grandiflora Masson, Stapel. nov. t. 11. 1797; Chandrab. & N.C. Nair, Fl. Coimbatore 179. 1988.
Cultivated.

STELMACRYPTON Baill. in Bull. Mens. Soc. Linn. Paris 2: 812. 1889.

Stelmacrypton khasianum (Kurz) Baill. in Bull. Mens. Soc.Linn. Paris 2: 812. 1889 & Hist. pl. 10: 300. 1890; Deb, Fl. Tripura 2: 27. 1983.
Pentanura khasiana Kurz, Forest fl. Burma 2: 196. 1877; Hook. f., Fl. Brit. India 4:4. 1883.
NE India.

STREPTOCAULON Wight & Arn. in Wight, Contr. bot. India 64. 1834.

Streptocaulon kleinii Wight & Arn. in Wight, Contr. bot. India 65. 1834;
Hook. f., Fl. Brit. India 4:9. 1883.
Kerala, Tamilnadu.

Streptocaulon sylvestre Wight, Contr. bot. India 65. 1834; Hook. f., Fl. Brit. India 4:10. 1883.
E Himalaya, E & NE India.

TELOSMA Coville in Contr. U. S. Natl. Herb. 9: 384. 1905.

Telosma cordata (Burm. f.) Merr. in Philipp. J. Sci. 19:372. 1921; Deb, Fl. Tripura 2: 36. 1983.
Asclepias cordata Burm. f., Fl. indica 72, t. 27. 1768.
Pergularia minor Andrews, Bot. repos. t. 184. 1801; Hook. f., Fl. Brit. India 4:38.
1883.
Asclepias odoratissima Roxb., Fl. ind. (Ed. Carey) 2: 46. 1832.
Telosma minor (Andrews) Craib in Bull. Misc. Inform. 1911: 418. 1911.
Pergularia odoratissima (Roxb.) Wight, Contr. bot. India 43. 1834 & Icon. pl. Ind. orient. t. 414. 1840.
Cultivated or wild throughout India.

Telosma pallida (Roxb.) Craib in Bull. Misc. Inform. 1911: 418.1911; Gamble, Fl. Madras 2: 593. 1967 (Repr.).
Asclepias pallida Roxb., Fl. ind. (Ed. Carey) 2: 48. 1832.
Pergularia pallida (Roxb.) Wight & Arn. in Wight, Contr. bot. India 42. 1834;
Wight, Icon. pl. Ind. orient. t. 585. 1842; Hook. f., Fl. Brit. India 4: 38.
1883.
Throughout India including Himalayas.

Note: M. R. Almeida, Fl. Maharashtra 3(A&B) : 259. 2001 provides the name : *Telosma tomentosa* based on *Pergularia tomentosa* L., Mant. pl. 1: 53. 1767; this composed of many names which appear under both *T. cordata* & *T. pallida* in this work as synonyms.

TOXOCARPUS Wight & Arn. in Wight, Contr. bot. India 61. 1834.

Toxocarpus acuminatus Benth. ex Hook. f., Fl. Brit. India 4: 15. 1883; R. K. Gupta, Fl. nainital. 223. 1968.
Goniostemma acuminatum Wight, Contr. bot. India 62. 1834.
Assam, W Himalaya.

Toxocarpus beddomei Gamble in Bull. Misc. Inform. 1922: 119. 1922 (Fl. Madras 2: 583. 1967, Repr.).
Tamilnadu.

Toxocarpus concanensis Hook. f., Fl. Brit. India 4: 14. 1883.
Peninsular India.

Toxocarpus himalensis Falc. ex Hook. f., Fl. Brit. India 4: 13. 1883.
E & NE India, Himalayas, Upper Gangetic Plains.

Toxocarpus kleinii Wight & Arn. in Wight, Contr. bot. India 61. 1834; Wight, Icon. pl. Ind. orient. t. 886. 1844 45; Hook. f., Fl. Brit. India 4: 14. 1883; Rasingam & Diwakar in Indian J. Forest. 29: 443. 2006.
Andaman Islands, E to Peninsular India.

Toxocarpus kurzii Hook. f., Fl. Brit. India 4: 15. 1883.
Andaman Islands.

Toxocarpus longistigma (Roxb.) Wight & Arn. ex Steud., Nomencl. bot. ed. 2. 2: 694. 1841; A. P. Jagtap & N. P. Singh in Fasc. fl. India 24: 283. 1999.
Asclepias longistigma Roxb., Fl. ind. (Ed. Carey) 2: 46. 1832.
Toxocarpus roxburghii Wight & Arn. in Wight, Contr. bot. India 61. 1834; Wight, Icon. pl. Ind. orient. t. 475. 1841; Hook. f., Fl. Brit. India 4: 14. 1883.
Andhra pradesh.

Toxocarpus palghatensis Gamble in Bull. Misc. Inform. 1922: 119. 1922 (Fl. Madras 2: 583. 1967, Repr.).
SW Ghats (Kerala, Tamilnadu).

Note: Hook. f., Fl. Brit. India 4: 15. 1883 has mentioned *?Toxocarpus wightianus* Hook. & Arn., Bot. Beechey voy. 200. 1837 under *'Doubtful and imperfectly known species'* based on collections from Khasia mts.

TREUTLERA Hook. f. in Hooker's Icon. Pl. ser. 3, 15: t. 1425. 1883.

Treutlera insignis Hook. f. in Hooker's Icon. Pl. ser. 3, 15: t. 1425. 1883 & Fl. Brit. India 4: 45. 1883.
C to E Himalaya, NE India.

TYLOPHORA R. Br., Asclepiadeae 17. 1810 & in Mem. Wern. Nat. Hist. Soc. 1: 28. 1811.

Tylophora belostemma Benth. ex Benth. & Hook. f., Gen. pl. 2: 771. 1876; Hook. f., Fl. Brit. India 4: 43. 1883.
Belostemma hirsutum Wall. ex Wight, Contr. bot. India 52. 1834.
E Himalaya, NE India.

Tylophora capparidifolia Wight & Arn. in Wight, Contr. bot. India 51. 1834;
Hook. f., Fl. Brit. India 4: 41. 1883.
SW Ghats.

Tylophora cordifolia Thwaites, Enum. pl. zeyl. 196. 1860; Hook. f., Fl. Brit. India 4: 44. 1883; Gamble, Fl. Madras 2: 593. 1967 (Repr.).
SW Ghats (Kerala).

Tylophora dalzellii Hook. f., Fl. Brit. India 4: 43. 1883.
Tylophora carnosa Dalzell & A. Gibson, Bombay fl. 150. 1861 non Wall. ex Wight, 1834.
Peninsular India.

Tylophora exilis (Spreng.) Colebr. in Trans. Linn. Soc., London 12: 358, t. 16. 1796; Hook. f., Fl. Brit. India 4: 44. 1883.
Pergularia exilis Spreng., Syst. veg. ed. 16. 1: 844. (1824) 1825.
Himalayas, NE India, Upper Gangetic Plains.

Tylophora fasciculata Buch.-Ham. ex Wight, Contr. bot. India 50. 1834; Wight, Icon. pl. Ind. orient. t. 848. 1844 - 45; Hook. f., Fl. Brit. India 4: 40. 1883.
Pentasachme fasciculata (Buch.-Ham. ex Wight) M.R. Almeida, Fl. Maharashtra 3 (A&B): 253. 2001 ('Pentasacme').
Almost throughout India.

 # Tylophora flexuosa R. Br., Prodr. 460. 1810.
Asclepias tetrapetala Dennst., Schlüssel Hortus malab. 14, 18, 35. 1818.
Asclepias tenuissima Roxb. ex Willd. in Schult., Syst. veg. 6: 86. 1820.
Tylophora tenuis Blume, Bijdr. 1062. 1827; Wight, Icon. pl. Ind. orient. t. 588. 1840 – 43; Hook. f., Fl. Brit. India 4: 42. 1883.
Tylophora carnosa Wall. ex Wight & Arn. in Wight, Contr. bot. India 49.1834; Wight, Icon. pl. Ind. orient. t. 351. 1840.
Tylophora tenuissima (Roxb. ex Willd.) Wight & Arn. in Wight, Contr. bot. India 49.1834; Wight, Icon. pl. Ind. orient. t. 538. 1840 – 43.
Vincetoxicum flexuosum (R. Br.) Kuntze, Revis. gen. pl. 2: 424. 1891.
Tylophora tetrapetala (Dennst.) Suresh in Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.) : 64. 1988; Swarupan. & Nicolson in Blumea 38: 233. 1993.
Tylophora tetrapetala var. *tenuissima* (Roxb. ex Willd.) Swarupan. in Blumea 38: 234. 1993.
Andaman & Nicobar Islands, E NE & Peninsular India.

Tylophora globifera Hook. f., Fl. Brit. India 4: 41. 1883.
Andaman Islands.

Tylophora govanii (Wight) Decne. in DC., Prodr. (Ed. A. DC.) 8: 610. 1844; Hook. f., Fl. Brit. India 4: 40. 1883.
Iphisia govanii Wight, Contr. bot. India 52. 1834.
W Himalaya.

Tylophora himalaica Hook. f., Fl. Brit. India 4: 42. 1883.
Himalayas, NE India.

Tylophora indica (Burm. f.) Merr. in Philipp. J. Sci. 19: 373. 1921; Maheshw., Fl. Delhi 220. 1963.
Cynanchum indicum Burm. f., Fl. indica 70. 1768.
Asclepias asthmatica L.f., Suppl. pl. 171. 1782.
Tylophora asthmatica (L.f.) Wight & Arn. in Wight, Contr. bot. India 51. 1834; Wight, Icon. pl. Ind. orient. t. 1277. 1848; Hook. f., Fl. Brit. India 4: 44. 1883.
Asclepias prolifera Rottler ex Ainslie, Materia ind. 2: 225. 1826.
var. **indica.**
Throughout India.

var. **glabra** (Decne.) H. Huber in Abeyw., (Ed.), Rev. handb. fl. Ceylon 1: 43. 1973; A. P. Jagtap & N. P. Singh in Fasc. fl. India 24: 161. 1999.
Tylophora asthmatica var. *glabra* Decne. [in DC., Prodr. (Ed. A. DC.) 8: 611. 1844 p.p.] emend. Thwaites, Enum. pl. zeyl. 197. 1860.
Karnataka, Kerala.

var. **intermedia** M.A. Rahman & Wilcock in J. Econ. Taxon. Bot. 13: 184. 1989.
E India.

Tylophora longifolia Wight, Contr. bot. India 50. 1834; Hook. f., Fl. Brit. India 4: 42. 1883.
E Himalaya, E & NE India.

Tylophora macrantha (Wight) Hook. f., Fl. Brit. India 4: 40. 1883.
Tylophora fasciculata var. *macrantha* Wight, Contr. bot. India 50. 1834.
Peninsular India.

Tylophora multiflora (Wight & Arn.) Alston in Trimen, Handb. fl. Ceylon 6 (Suppl.) : 195. 1931.
Iphisia multiflora Wight & Arn. in Wight, Contr. bot. India 52. 1834.
Tylophora iphisia Decne. in DC., Prodr. (Ed. A. DC.) 8: 610. 1844; Wight, Icon. pl. Ind. orient. t. 1276. 1848; Hook. f., Fl. Brit. India 4: 40. 1883.
SW Ghats (Nilgiris).

 # Tylophora ovata (Lindl.) Hook. ex Steud., Nomencl. bot. ed. 2. 2: 726. 1841.
Diplolepis ovata Lindl. in Trans. Hort. Soc. London 6: 268 – 269. 1826.
Gymnema hirsutum Wall., Tent. fl. napal. 50. 1826.
Tylophora hirsuta (Wall.) Wight, Contr. bot. India 49. 1834; Hook. f., Fl. Brit. India 4: 43. 1883.
Tylophora mollissima Wight, Contr. bot. India 49. 1834 & Icon. pl. Ind. orient. t. 1275. 1848; Hook. f., Fl. Brit. India 4: 43. 1883.
N & NE India, SW Ghats (Nilgiris & Pulneys),Tropical Himalayas.

Tylophora pauciflora Wight & Arn. in Wight, Contr. bot. India 49. 1834; Wight, Icon. pl. Ind. orient. t. 1274. 1848; Hook. f., Fl. Brit. India 4: 41. 1883.
S India.

Tylophora rotundifolia Buch.-Ham. ex Wight, Contr. bot. India 50. 1834; Hook. f., Fl. Brit. India 4: 43. 1883.
E NE & Peninsular India.

Tylophora subramanii A.N. Henry in Proc. Indian Acad. Sci. 65 B: 161. 1967.
Kerala, Tamilnadu.

Tylophora tenerrima Wight, Contr. bot. India 50. 1834; Hook. f., Fl. Brit. India 4: 44. 1883.
E & N India, subtropical Himalayas.

Tylophora wallichii (Wight) Hook. f., Fl. Brit. India 4: 45.1883; Banerji in J. Indian Bot. Soc. 31: 153. 1952 & in Rec. Bot. Surv. India 19 (2): 68. 1966; H. Hara in H. Hara et al., Enum. fl. pl. Nepal 3: 89. 1982.
C Himalaya.

Tylophora zeylanica Decne. in DC., Prodr. (Ed. A. DC.) 8: 608. 1844; Hook. f., Fl. Brit. India 4: 42.1883.
Kerala, Tamilnadu.

UTLERIA Bedd. ex Benth. in Benth. & Hook. f., Gen. pl. 2: 743. 1876.

Utleria salicifolia Bedd. ex Hook. f., Fl. Brit. India 4: 7.1883 & in Hooker's Icon. Pl. ser. 3, 15: t. 1432. 1883 – 1885; Rama Rao, Fl. pl. Travancore 259. 1914.
SW Ghats (Kerala, Tamilnadu).

VINCETOXICUM Wolf, Gen. pl. 130. 1776 & Gen. sp. pl. 269. 1781.
PENTABOTHRA Hook. f., Fl. Brit. India 4: 18.1883.

Vincetoxicum nanum (Buch.-Ham. ex Wight) Liede in Taxon 45: 205 1996.
Cynanchum nanum Buch.-Ham. ex Wight, Contr. bot. India 59. 1834.
Pentabothra nana (Buch.-Ham. ex Wight) Hook. f. in Hooker's Icon. Pl. ser. 3, 15: 21, t. 1426. 1883 & Fl. Brit. India 4: 19. 1883.
E & NE India, Upper Gangetic Plains.

[# These entries have been taken from P.T. Li, M.G. Gilbert & W.D. Stevens in Fl. China (Eds. C.Y. Wu & P.H. Raven) 16: 189 – 270. 1995 available *online*].

ASTERACEAE [COMPOSITAE]

ACANTHOSPERMUM Schrank, Pl. rar. hort. monac. 2: 53. (1819) 1820.

Acanthospermum hispidum DC., Prodr. 5: 522. 1836; Gamble, Fl. Madras 2: 495. 1967 (Repr.).
Acanthospermum australe sensu Raizada & V.S. Sharma in Indian Forester 88: 364. 1962 non (Loefl.) Kuntze, 1891 non *Melampodium australe* Loefl., 1758; V. Singh in Curr. Sci. 42: 68. 1973.
Throughout India.
Note: Pruski has proposed to conserve *Acanthospermum* Schrank (1820) against *Centrospermum* Kunth (1818) – cf. Taxon 46: 805 – 806. 1997.

ACHILLEA L., Sp. pl. 896. 1753.

Achillea alpina L., Sp. pl. 899. 1753; B.D. Naithani in Hajra, R.R. Rao, D.K. Singh & Uniyal (Eds.), Fl. India 12: 5. 1995.
Achillea sibirica Ledeb., Suppl. Bot. Gart. Dorpat 1–5. 1811 & Fl. ross. 2: 528. 1845; N.P. Balakr. in Bull. Bot. Surv. India 16: 170. 1977.
E Himalaya, NE India.

Achillea millefolium L., Sp. pl. 899. 1753; Hook. f., Fl. Brit. India 3: 312. 1881.
W Himalaya (cultivated elsewhere).

Achillea setacea Waldst. & Kit., Descr. icon. pl. Hung. 1: 82. 1802; K.R. Rao, H.J. Chowdhery, Hajra, Sarv.Kumar, P.C. Pant, B.D. Naithani, Uniyal, R. Mathur & Mamgain, Fl. ind. enum.-Asterac. 1. 1988.
Cultivated.

Achillea squarrosa Aiton, Hort. kew. 3: 242. 1789; Hook. f., Fl. Brit. India 3: 312. 1881.
Cultivated.

ACMELLA Rich. ex Pers., Syn. pl. 2: 472. 1807.

Acmella calva (DC.) R.K. Jansen in Syst. Bot. Monogr. 8: 41. 1985.
Spilanthes calva DC. in Wight, Contr. bot. India 19. 1834; Wight, Icon. pl. Ind. orient. t. 1109. 1846.
Spilanthes acmella var. *calva* (DC.) C.B. Clarke, Compos. ind. 138. 1876; Hook. f., Fl. Brit. India 3: 307. 1881.
Spilanthes acmella sensu Hook. f., Fl. Brit. India 3: 307. 1881 non Murray, 1774.
Throughout India.

Acmella paniculata (Wall. ex DC.) R.K. Jansen in Syst. Bot. Monogr. 8: 67. 1985.
Spilanthes paniculata Wall. ex DC., Prodr. 5: 625. 1836; Sivar. & Remesan in J. Econ. Taxon. Bot. 10: 143. 1987.

Spilanthes acmella var. *paniculata* (Wall. ex DC.) C.B. Clarke, Compos. ind. 139. 1876; Hook. f., Fl. Brit. India 3: 307. 1881.
Almost throughout India.

Acmella uliginosa (Sw.) Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 24: 331. 1822.
Spilanthes uliginosa Sw., Prodr. 110. 1788; Sivar. & Remesan in J. Econ. Taxon. Bot. 10: 146. 1987.
Spilanthes iabadicensis A.H. Moore in Proc. Amer. Acad. Arts 42 (20): 524. 1907.
Andaman & Nicobar Islands, E N & S India, Himalayas.

ACROPTILON Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 50: 464. 1827.
Acroptilon repens (L.) DC., Prodr. 6: 603. (1837) 1838; D. Dhar & Kachroo, Alp. fl. Kashmir Himal. 124. 1983.
Centaurea repens L., Sp. pl. 916. 1753.
Alpine W Himalaya.

ADENOCAULON Hook., Bot. misc. 1: 19. 1829.

Adenocaulon himalaicum Edgew. in Trans. Linn. Soc. London 20: 64. 1846; Kitam. & S. Gould in H. Hara et al., Enum. fl. pl. Nepal 3: 9. 1982.
Adenocaulon bicolor sensu Hook. f., Fl. Brit. India 3: 302. 1881 non Hook., 1829
Temperate Himalayas.

Adenocaulon nepalense Bittm. in Candollea 45: 403, ff. 13 & 14. 1990.
C to E Himalaya.

ADENOON Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 344. 1850.

Adenoon indicum Dalzell in Hooker's J. Bot. Kew Gard. Misc. 2: 344. 1850; Hook.f., Fl. Brit. India 3: 229. 1881.
Peninsular India.

ADENOSTEMMA J.R. & G. Forst., Char. gen. pl. 89. 1776.

Adenostemma lavenia (L.) Kuntze, Revis. gen. pl. 1: 304. 1891; Panigrahi in Kew Bull. 30: 648. 1975.
Verbesina lavenia L., Sp. pl. 902. 1753.
Adenostemma viscosum J.R. & G. Forst., Char. gen. pl. 90, t. 45. 1776; Hook. f., Fl. Brit. India 3: 242. 1881 p.p. var. **lavenia.**
Throughout India.

var. **angustifolium** (Arn.) J. Kost. in Blumea 1: 475. 1935; Panigrahi in Kew Bull. 30: 652. 1975.
Adenostemma angustifolium Arn. in Nova Acta Phys.-Med. Acad. Caes. Leop - Carol. Nat. Cur. 18: 347. 1836.
Adenostemma viscosum sensu Hook. f., Fl. Brit. India 3: 242. 1881 p.p. non J.R. & G. Forst., 1776.
Andaman & Nicobar Islands, E Himalaya, E N NE & Peninsular India.

var. **elatum** (D. Don) Hochr. in Candollea 5: 298. 1934; Panigrahi in Kew Bull. 30: 652. 1975.
Adenostemma elatum D. Don, Prodr. fl. nepal. 181. 1825.
Adenostemma viscosum var. *elatum* (D. Don) C.B. Clarke, Compos. ind. 29. 1876; Hook. f., Fl. Brit. India 3: 242. 1881 p.p.
Throughout India.

var. **latifolium** (D.Don) Panigrahi in Kew Bull. 30: 651. 1975.
Adenostemma latifolium D. Don, Prodr. fl. nepal. 181. 1825.
Adenostemma viscosum var. *latifolium* (D.Don) C.B. Clarke ex Hook. f., Fl. Brit. India 3: 242. 1881.
Andaman & Nicobar Islands, Himalayas.

var. **madurense** (DC.) Panigrahi in Kew Bull. 30: 654. 1975.
Adenostemma madurense DC. in Wight, Contr. bot. India 9. 1834.
E Himalaya, E NE & S India.

var. **microcephalum** (DC.) J. Kost. in Blumea 1: 474. 1935; Babu, Herb. fl. Dehra Dun 238. 1977.
Adenostemma microcephalum DC., Prodr. 5: 111. 1836.
Adenostemma viscosum var. *elatum* sensu Hook. f., Fl. Brit. India 3: 242. 1881 p.p. non *Adenostemma elatum* D. Don, 1825.
E & NE India,W Himalaya.

var. **parviflorum** (Blume) Hochr. in Candollea 5: 298. 1934.
Lavenia parviflora Blume, Bijdr. 906. 1826.
Adenostemma viscosum var. *parviflorum* (Blume) Hook. f., Fl. Brit. India 3: 242. 1881.
W Himalaya.

var. **reticulatum** (DC.) Panigrahi in Kew Bull. 30: 654. 1975.
Adenostemma reticulatum DC. in Wight, Contr. bot. India 8. 1834; Wight, Icon. pl. Ind. orient. t. 1088. 1846.
Adenostemma viscosum var. *reticulatum* (DC.) C.B. Clarke ex Hook. f., Fl. Brit. India 3: 243. 1881.
Nicobar Islands, S & E India.

var. **rugosum** (DC.) C.B. Clarke ex Kuntze, Revis. gen. pl. 1: 304. 1891.
Adenostemma rugosum DC. in Wight, Contr. bot. India 8. 1834.
Adenostemma viscosum var. *rugosum* (DC.) C.B. Clarke ex Hook. f., Fl. Brit. India 3: 243. 1881.
Andaman & Nicobar Islands, Peninsular India.

Adenostemma macrophyllum (Blume) DC., Prodr. 5: 113. 1836; Babu, Herb. fl. Dehra Dun 238. 1977.
Lavenia macrophylla Blume, Bijdr. 905. 1826; Hook. f., Fl. Brit. India 3: 242. 1881 pro syn.
W Himalaya.

AGERATINA Spach, Hist. nat. vég. 10: 286. 1841.

Ageratina adenophora (Spreng.) R.M. King & H. Rob. in Phytologia 19: 211. 1970; K.M. Matthew, Fl. Tamilnadu Carnatic 3(1): 760. 1983.
Eupatorium adenophorum Spreng., Syst. veg. ed. 16. 3: 420. 1826; Dhyani in J. Bombay Nat. Hist. Soc. 77: 169. 1980.
Eupatorium glandulosum Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio) : 96, t. 346. 1820 non Michx., 1803.
Weed throughout tropical India.

Ageratina ligustrina (DC.) R.M. King & H. Rob. in Phytologia 19: 223. 1970.
Eupatorium ligustrinum DC., Prodr. 5: 181. 1836; Deb in Indian Forester 96: 351. 1970.
E & N India.

Ageratina riparia (Regel) R.M. King & H. Rob. in Phytologia 19: 216. 1970.
Eupatorium riparium Regel in Gartenflora 15: 324, t. 525. 1866; Babu in Sci. & Cult. 35: 402. 1969.
Cultivated and naturalised.

Ageratina trapezoidea (Kunth) R.M. King & H. Rob. in Phytologia 24: 98. 1972.
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NE India.

AGERATUM L., Sp. pl. 839. 1753.

Ageratum conyzoides L., Sp. pl. 839. 1753; Hook. f., Fl. Brit. India 3: 243. 1881.
Throughout India.

Ageratum houstonianum Mill., Gard. dict. ed. 8. no. 2. 1768; Gamble, Fl. Madras 1881. 1935 (3: 1302. 1967, Repr.).
Ageratum conyzoides ssp. *houstonianum* (Mill.) M. Sharma in Geobios New Rep. 3: 152. 1984.
Carelia houstoniana (Mill.) Kuntze, Revis. gen. pl. 1: 325. 1891.
Weed.

AINSLIAEA DC., Prodr. 7: 13. 1838.

Ainsliaea angustifolia Hook. f. & Thomson ex C.B. Clarke in J. Linn. Soc., Bot. 14: 412. 1875; Hook. f., Fl. Brit. India 3: 388. 1881.
Meghalaya.

Ainsliaea aptera DC., Prodr. 7: 14. 1838; Hook. f., Fl. Brit. India 3: 388. 1881.
NE India, Temperate Himalayas.

Ainsliaea latifolia (D. Don) Sch.Bip. in Jahresber. Pollichia 18-19: 190. 1861; Raizada in Indian Forester 92: 301. 1966.
Liatris latifolia D. Don, Prodr. fl. nepal. 169. 1825.
NE India, Temperate Himalayas.

AJANIA Poljakov in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 17: 419. 1955.

Ajania nubigena (Wall. ex DC.) C. Shih [in Acta Phytotax. Sin. 17: 116. 1979] ex Muldashev in Bot. Zurn. (Moscow & Leningrad) 68(2): 212. 1983; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1552. 2001.
Tanacetum nubigenum DC., Prodr. 6: 130. (1837) 1838; Hook. f., Fl. Brit. India 3: 318. 1881.
Chrysanthemum nubigenum (DC.) Hand.-Mazz., Symb. sin. 7: 1113. 1936; R.R. Rao et al., Fl. ind. enum.-Asterae 24. 1988
Alpine Himalayas.

ALLARDIA Decne. in Jacquem., Voy. Inde 4: 87. 1844.
WALDHEIMIA Kar. & Kir. in Bull. Soc. Imp. Naturalistes Moscou 15: 125. 1842.

Note : The proposal to conserve *Waldheimia* Kar. & Kir. against *Allardia* Decne. by Pusalkar & D.K. Singh in Taxon 54: 553 - 554. 2005 has not been accepted by the Committee for Vascular Plants, c.f. Brummitt in Taxon 56: 592. 2007. Consequently, *Allardia* has to be adopted.

Allardia glabra Decne. in Jacquem., Voy. Inde 4: 88, t. 96. 1844; Hook. f., Fl. Brit. India 3: 313. 1881.
Waldheimia glabra (Decne.) Regel in Trudy Imp. S.-Peterburgsk. Bot. Sada 6: 310. 1879; M.A. Rau, High alt. fl. pl. W. Himal. 137. 1975.
Himalayas.

Allardia huegelii Sch. Bip. in Jahresber. Pollichia 20-21: 442. 1863.
Waldheimia stracheyana Regel in Trudy Imp. S.-Peterburgsk. Bot. Sada 6: 309. 1879.
Allardia glabra sensu Hook.f., Fl. Brit. India 3: 313. 1881 p.p. non Decne., 1844.
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W Himalaya.

Allardia nivea Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 148. 1876; Hook. f., Fl. Brit. India 3: 313. 1881.
Waldheimia nivea (Hook. f. & Thomson ex C.B. Clarke) Regel in Trudy Imp. S.-Peterburgsk. Bot. Sada 6: 310. 1879; M.A. Rau, High alt. fl. pl. W. Himal. 137. 1975.
W Himalaya.

Allardia stoliczkai C.B. Clarke, Compos. ind. 145. 1876; Hook. f., Fl. Brit. India 3: 313. 1881.
Waldheimia stoliczkai (C.B. Clarke) Ostenf. in Hedin, S. Tibet 6(3) : 38. 1922; Kachroo et al., Fl. Ladak 107. 1977.
W Himalaya.

Allardia tomentosa Decne. in Jacquem., Voy. Inde 4: 87, t. 95. 1844; Hook. f., Fl. Brit. India 3: 313. 1881.
Waldheimia tomentosa (Decne.) Regel in Trudy Imp. S.-Peterburgsk. Bot. Sada 6: 310. 1879; M.A. Rau, High alt. fl. pl. W. Himal. 137. 1975.
C to W Himalaya.

Allardia tridactylites (Kar. & Kir.) Sch. Bip. in Jahresber. Pollichia 20-21: 442. 1863.
Waldheimia tridactylites Kar. & Kir. in Bull. Soc. Imp. Naturalistes Moscou 15 : 126. 1842.
Allardia glabra sensu Hook.f., Fl. Brit. India 3: 313. 1881 p.p. non Decne., 1844.
Himalayas.

Allardia vestita Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 145. 1876; Hook. f., Fl. Brit. India 3: 313. 1881.
Waldheimia vestita (Hook. f & Thomson) Pamp., Fl. Caracorum 208. 1930; M.A. Rau, High alt. fl. pl. W. Himal. 137. 1975.
W Himalaya.

AMBERBOA (Pers.) Less., Syn. gen. Compos. 8. 1832 nom. cons.
CENTAUREA subg. AMBERBOA Pers., Syn. pl. 1: 481. 1805.

Amberboa moschata (L.) Less., Syn. gen. Compos. 8. 1832; M. Sharma in J. Econ. Taxon. Bot. 3: 529. 1982.
Centaurea moschata L., Sp. pl. 909. 1753.
Punjab.
Note: M. R. Almeida, Fl. Maharashtra 3A: 124. 2001 provides the name *Oligochaeta moschata* with an erroneous basionym.

AMBROSIA L., Sp. pl. 987. 1753.

Ambrosia artemisifolia L., Sp. pl. 988. 1753; Chatterji & Raizada in Indian Forester 74: 389. 1948.
Introduced.

Ambrosia elatior L., Sp. pl. 987. 1753; Panigrahi & S.K. Kar in Bull. Bot. Surv. India 8: 229. 1966.
Naturalised in Meghalaya, Upper Gangetic Plains & Sub Himalayan tracts.

ANAPHALIS DC., Prodr. 6: 271. (1837) 1838.

Anaphalis adnata DC., Prodr. 6: 274. (1837) 1838; Hook. f., Fl. Brit. India 3: 282. 1881.
C E NE & S India. Temperate Himalayas.

Anaphalis alata Maxim. in Bull. Acad. Imp. Sci. Saint-Petersbourg 27: 478. 1881; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 10. 1982.
C Himalaya.

Anaphalis aristata DC., Prodr. 6: 274. (1837) 1838; Wight, Icon. pl. ind. orient. t. 1119. 1846; Hook. f., Fl. Brit. India 3: 285. 1881.
SW Ghats (Kerala, Tamilnadu).

Anaphalis barnesii C.E.C. Fisch. in Bull. Misc. Inform. 1939: 247. 1939.
Kerala, Tamilnadu.

Anaphalis beddomei Hook. f., Fl. Brit. India 3: 282. 1881.
Kerala, Tamilnadu.

Anaphalis bournei Fyson in Bull. Misc. Inform. 1914: 209. 1914; Gamble, Fl. Madras 2: 490. 1967 (Repr.).
SW Ghats (Kerala, Tamilnadu).

Anaphalis brevifolia DC., Prodr. 6: 273. (1837) 1838; Hook. f., Fl. Brit. India 3: 286. 1881.
SW Ghats (Tamilnadu).

Anaphalis busua (Buch.-Ham. ex D. Don) DC., Prodr. 6: 275. (1837) 1838.
Gnaphalium busua Buch.-Ham. ex D. Don, Prodr. fl. nepal. 173. 1825.
Anaphalis araneosa DC., Prodr. 6: 275. (1837) 1838; Hook. f., Fl. Brit. India 3: 283. 1881.
NE India, Temperate Himalayas.

Anaphalis cavei Chatterjee in Bull. Bot. Soc. Bengal 3: 17. 1949.
C to E Himalaya.

Anaphalis contorta (D. Don) Hook. f., Fl. Brit. India 3: 284. 1881.
Antennaria contorta D. Don in Bot. Reg. (Ed. Ker Gawl.) 7: t. 605. 1821.
Anaphalis hondae Kitam. in Acta Phytotax. Geobot. 15: 78. 1953.
var. **contorta.**
NE India, Temperate & subalpine Himalayas.

var. **flavescens** Kitam. in Acta Phytotax. Geobot. 23: 9. 1968.
C Himalaya.

var. **roseo-alba** (Krasch.) Kitam. in H. Hara, Fl. E. Himal. 331. 1966.
E Himalaya.

Anaphalis corymbosa (Bureau & Franch.) Diels in Repert. Spec. Nov. Regni Veg. 12: 505. 1922; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 10. 1982.
Gnaphalium corymbosum Bureau & Franch. in J. Bot. (Morot) 5: 71. 1891.
C to E Himalaya.

Anaphalis desertil J.R. Drumm. in Bull. Misc. Inform. 1910: 76. 1910.
E Himalaya.

Anaphalis elliptica DC., Prodr. 6: 274. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 1118. 1846.
Anaphalis oblonga var. *elliptica* (DC.) Hook. f., Fl. Brit. India 3: 283. 1881.
SW Ghats (Tamilnadu: Nilgiris).

Anaphalis griffithii Hook. f., Fl. Brit. India 3: 280. 1881.
C to E Himalaya, NE India.

Anaphalis himachalensis Aswal & Goel in Nord. J. Bot. 8: 337,f. 1, A-I. 1988.
W Himalaya.

Anaphalis hookeri C.B. Clarke ex Hook. f., Fl. Brit. India 3: 282. 1881.
E Himalaya.

Anaphalis kashmiriana P.C. Pant, R.R. Rao & Arti Garg in J. Jap. Bot. 69: 258, f. 1, A-M. 1994.
NW Himalaya.

Anaphalis lawii (Hook. f.) Gamble, Fl. Madras 695. 1921 (2: 489. 1967, Repr.).
Anaphalis oblonga var. *lawii* Hook. f., Fl. Brit. India 3: 283. 1881.
E & Peninsular India.

Anaphalis leptophylla (DC.) DC., Prodr. 6: 273. (1837) 1838; Hook. f., Fl. Brit. India 3: 285. 1881.
Helichrysum leptophyllum DC. in Wight, Contr. bot. India 20. 1834.
SW Ghats (Kerala, Tamilnadu).

Anaphalis marcescens (Wight) C.B. Clarke, Compos. ind. 110. 1876; Hook. f., Fl. Brit. India 3: 286. 1881.
Gnaphalium marcescens Wight, Icon. pl. Ind. orient. t. 1115. 1846.
SW Ghats.

Anaphalis margaritacea (L.) Benth. in Benth. & Hook. f., Gen. pl. 2: 303. 1873; R.R. Rao et al., Fl. ind. enum.- Asterac. 4. 1988.
Gnaphalium margaritaceum L., Sp. pl. 850. 1753.
Anaphalis timmua D. Don, Prodr. fl. nepal. 174. 1825.
Anaphalis cinnamomea C.B. Clarke, Compos. ind. 104. 1876; Hook. f., Fl. Brit. India 3: 281. 1881.
Anaphalis margaritacea ssp. *angustior* Kitam. in Mem. Coll. Sci. Kyoto Imp. Univ., ser. B, Biol. 13: 243. 1937.
NE India, Temperate Himalayas.

Anaphalis meeboldii W.W. Sm. in Rec. Bot. Surv. India 4: 284. 1911; Gamble, Fl. Madras 2: 490. 1967 (Repr.).
Kerala,Tamilnadu.

Anaphalis neelgerriana (Sch.Bip. ex DC.) DC., Prodr. 6: 272. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 478. 1841; Hook. f., Fl. Brit. India 3: 287. 1881.
Gnaphalium neelgerrianum Sch.Bip. ex DC. in Wight, Contr. bot. India 21. 1834.
SW Ghats (Kerala,Tamilnadu).

Anaphalis nepalensis (Spreng.) Hand.-Mazz., Symb. sin. 7: 1099. 1936; Kachroo et al., Fl. Ladakh 92. 1977.
Helichrysum nepalensis Spreng., Syst. veg. ed. 16. 3: 485. 1826.
Antennaria triplinervis var. *intermedia* DC., Prodr. 6: 270. (1837) 1838.
Antennaria triplinervis var. *cuneifolia* DC., Prodr. 6: 270. (1837) 1838.
Anaphalis mucronata var. *monocephala* DC., Prodr. 6: 272. (1837) 1838.
Anaphalis nubigena DC., Prodr. 6: 272. (1837) 1838; Hook. f., Fl. Brit. India 3: 279. 1881.
Anaphalis nubigena var. *intermedia* (DC.) Hook. f., Fl. Brit. India 3: 280. 1881.
Anaphalis cuneifolia (DC.) Hook. f., Fl. Brit. India 3: 280. 1881.
Anaphalis triplinervis var. *intermedia* (DC.) Airy Shaw in Curtis, Bot. Mag. (Ed. A.W. Hill) 158: t. 9396. 1935.
Anaphalis nepalensis var. *cuneifolia* (DC.) Aswal in Aswal & Mehrotra, Fl. Lahaul- Spiti 326. 1994.
Alpine & Temperate Himalayas, NE India.

Anaphalis notoniana (DC.) DC., Prodr. 6: 273. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 1116. 1846; Hook. f., Fl. Brit. India 3: 284. 1881.
Helichrysum notonianum DC. in Wight, Contr. bot. India 20. 1834.
SW Ghats (Kerala, Tamilnadu).

Anaphalis royleana DC., Prodr. 6: 273. (1837) 1838; Hook. f., Fl. Brit. India 3: 280. 1881.
var. **royleana**.
Alpine Himalayas.

var. **cana** Hook. f., Fl. Brit. India 3: 280. 1881.
Himalayas.

var. **concolor** Hook. f., Fl. Brit. India 3: 280. 1881.
Alpine Himalayas.

Anaphalis saxatilis Boerl., Handl. fl. Ned. Ind. 2: 1. 1891; R. R. Rao et al., Fl. ind. enum. -Asterac. 4. 1988.
Karnataka.

Anaphalis staintonii Georgiadou in Candollea 33: 137. 1978.
NW Himalaya.

Anaphalis subdecurrens (DC.) Gamble, Fl. Madras 695. 1921 (2: 489. 1967, Repr.).
Gnaphalium subdecurrens DC. in Wight, Contr. bot. India 21. 1834.
Anaphalis oblonga DC., Prodr. 6: 274. (1837) 1838; Hook. f., Fl. Brit. India 3: 283. 1881.
SW Ghats.

Anaphalis subumbellata C.B. Clarke, Compos. ind. 108. 1876; Hook. f., Fl. Brit. India 3: 281. 1881.
C to E Himalaya.

Anaphalis tenella DC., Prodr. 6: 273. (1837) 1838; C. Micle in Bull. Brit. Mus. (Nat. Hist.), Bot. 16: 237. 1987.
Anaphalis contorta Hook. f., Fl. Brit. India 3: 284. 1881 p.p.
Himalayas, NE India

Anaphalis travancorica W.W. Sm. in Rec. Bot. Surv. India 4: 284. 1911; Gamble, Fl. Madras 2: 489. 1967 (Repr.).
SW Ghats.

Anaphalis triplinervis (Sims) C.B. Clarke, Compos. ind. 105. 1876; Hook. f., Fl. Brit. India 3: 281. 1881.
Antennaria triplinervis Sims in Curtis, Bot. Mag. (Ed. Sims) 51: t. 2468. 1824.
NE India, Temperate Himalayas

Anaphalis virgata Thomson ex C.B. Clarke, Compos. ind. 107. 1876; Hook. f., Fl. Brit. India 3: 285. 1881.
Anaphalis stoliczkai C.B. Clarke, Compos. ind. 108. 1876; Hook. f., Fl. Brit. India 3: 283. 1881.
Himalayas.

Anaphalis wightiana (DC.) DC., Prodr. 6: 273. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 1117. 1846; Hook. f., Fl. Brit. India 3: 286. 1881.
Gnaphalium wightianum DC. in Wight, Contr. bot. India 21. 1834.
SW Ghats.

Anaphalis xylorhiza Sch.Bip. ex Hook. f., Fl. Brit. India 3: 281. 1881.
Himalayas.

Anaphalis yunnanensis (Franch.) Diels in Notes Roy. Bot. Gard. Edinburgh 7: 337. 1912; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 11. 1982.
Gnaphalium yunnanensis Franch. in J. Bot. (Morot) 10: 410. 1896.
var. **yunnanensis**.
C Himalaya.

var. **muliensis** Hand.-Mazz. in Kaiserl. Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz. 61: 203. 1924; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 11. 1982.
Anaphalis muliensis (Hand.-Mazz.) Hand.-Mazz. in Notizbl. Bot. Gart. Berlin-Dahlem 13: 631. 1937.
C Himalaya.

ANTHEMIS L., Sp. pl. 893. 1753.

Anthemis cotula L., Sp. pl. 894. 1753; *Hook. f., Fl. Brit. India 3: 312. 1881; Raizada, Suppl. Duthie's fl. Gangetic plain 103. 1976.
NW Himalaya, Upper Gangetic Plains.
Note: * Hook.f. reported this from Sind presently in Pakistan.

ARCTIUM L., Sp. pl. 816. 1753.

Arctium lappa L., Sp. pl. 816. 1753; Hook. f., Fl. Brit. India 3: 359. 1881.
C to W Himalaya.

ARCTOTIS L., Sp. pl. 922. 1753.

Arctotis leptorhiza DC., Prodr. 6: 486. (1837) 1838; K.K. & S. Sharma, Fl. Rajasthan 89. 1989.
Cultivated.

Arctotis stoechadifolia P.J. Bergius, Descr. pl. Cap. 324. 1767; K.K. & S. Sharma, Fl. Rajasthan 90. 1989.
Cultivated.

ARNICA L., Sp. pl. 884. 1753.

Arnica montana L., Sp. pl. 884. 1753; R.R. Rao et al., Fl. ind. enum. -Asterac. 6. 1988.
NW Himalaya.

ARTEMISIA L., Sp. pl. 845. 1753.

Artemisia abrotanum L., Sp. pl. 845. 1753; J. Graham, Cat. pl. Bombay 102. 1839.
Cultivated.

Artemisia absinthium L., Sp. pl. 848. 1753; Hook. f., Fl. Brit. India 3: 328. 1881.
W Himalaya.

Artemisia amygdalina Decne. in Jacquem., Voy. Inde 4: 92, t. 100. 1844; Hook. f., Fl. Brit. India 3: 325. 1881.
W Himalaya.

Artemisia annua L., Sp. pl. 847. 1753; Hook. f., Fl. Brit. India 3: 323. 1881; Y.R. Ling in Bull. Bot. Surv. India 33: 298. (1991) 1994.
Artemisia wadei Edgew. in Trans. Linn. Soc. London 20: 72. 1846.
Artemisia stewartii C.B. Clarke, Compos. ind. 163. 1876.
W Himalaya.

Artemisia austrohimalayana Y.R. Ling & Puri in Guihaia 8: 64. 1988.
Artemisia tenuifolia Y.R. Ling & Puri in Guihaia 5: 2. 1985 non Willd., 1803 nec Adam ex DC., 1838.
W Himalaya.

Artemisia austroyunnanensis Ling & Y.R. Ling in Bull. Bot. Res., Harbin 4 (2): 20, f. 4 . 1984; Y.R. Ling in Bull. Bot. Surv. India 33: 300. (1991) 1994.
E Himalaya, NE India.

Artemisia biennis Willd., Phytographia 11, no. 39. 1794 & Sp. pl. 3: 1842. 1804; Hook. f., Fl. Brit. India 3: 324. 1881.
Artemisia tournefortiana Rchb., Iconogr. bot. exot. 1: 6, t. 5. 1824; Hook. f., Fl. Brit. India 3: 324. 1881.
Alpine Himalayas.

Artemisia campbellii Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 164. 1876; Hook. f., Fl. Brit. India 3: 327. 1881.
Himalayas.

Artemisia capillaris Thunb., Fl. jap. 309. 1784; G. Miehe in Bull. Brit. Mus. (Nat. Hist.), Bot. 16: 238. 1987.
Artemisia scoparia Waldst. & Kit., Descr. icon. pl. Hung. 1: 66, t. 65. 1802; Hook. f., Fl. Brit. India 3: 323. 1881.
Artemisia mollissima D. Don, Prodr. fl. nepal. 182. 1825; Hook. f., Fl. Brit. India 3: 330. 1881.
Artemisia capillaris var. *scoparia* (Waldst. & Kit.) Pamp. in Nuovo Giorn. Bot. Ital. n. s. 34: 642. 1926-1927.
forma **capillaris**.
C to W Himalaya, Gujarat, Punjab, Upper Gangetic Plains.

forma **kohatica** (Klatt) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 642. 1927-28; R.R. Rao et al., Fl. ind. enum.- Asterac. 6. 1988.
Artemisia kohatica Klatt in Sitzungsber. Math.- Phys. Cl. Königl. Bayer. Akad. Wiss. München 8: 91. 1878.
W Himalaya.

Artemisia caruifolia Buch.-Ham. in Roxb., Fl. ind. (Ed. Carey) 3: 422. 1832 ('carnifolia'); Hook. f., Fl. Brit. India 3: 324. 1881.
E & NE India, Gangetic Plains, Himalayas.

Artemisia demissa Krasch. in Act. Inst. Bot. Acad. Sci. USSR 1(3): 348. 1937; Y.R. Ling in Bull. Bot. Surv. India 33: 303. (1991) 1994.
C Himalaya.

Artemisia desertorum Spreng., Syst. veg. ed. 16 3: 490. 1826; Hook. f., Fl. Brit. India 3: 322. 1881.
var. **desertorum**.
Himalayas

var. **foetida** (Jacquem. ex DC.) Ling & Y.R. Ling in Bull. Bot. Surv. India 33: 305. (1991) 1994.
Artemisia foetida Jacquem. ex DC., Prodr. 6: 98. (1837) 1838.
C to W Himalaya.

Artemisia dracunculus L., Sp. pl. 849. 1753; Hook. f., Fl. Brit. India 3: 321. 1881; Y.R. Ling in Bull. Bot. Surv. India 33: 303. (1991) 1994.
Artemisia glauca sensu Hook.f., Fl. Brit. India 3: 322. 1881 non Pall. ex Willd.,1804 p.p.
var. **dracunculus**.
Himalayas.

var. **pamirica** (C. Winkl.) Y.R. Ling & Humphries in Bull. Bot. Surv. India 33: 304. (1991) 1994.
Artemisia pamirica C. Winkl. in Trudy Imp. S.-Peterburgsk. Bot. Sada 11: 329. 1890; S.S. Jain & Sum.Chandra in Indian J. Forest. 9: 356. 1986.
Artemisia simplicifolia Pamp. in Nuovo Giorn. Bot. Ital. n.s. 46: 589. 1939.
NW Himalaya.

Artemisia dubia Wall. ex Besser in Nouv. Mém. Soc. Imp. Naturalistes Moscou 3: 39. 1834; Y.R. Ling in Kew Bull. 42: 443. 1987.
Artemisia vulgaris sensu Hook. f., Fl. Brit. India 3: 325. 1881 p.p. (quoad syn. *Artemisia dubia* Wall. ex Besser) non L., 1753.
Artemisia thomsonii C.B. Clarke ex Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 653. 1927.
Artemisia dracunculus forma *thomsonii* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 36: 379. 1929.
Artemisia subdigitata var. *thomsonii* (Pamp.) S.Y. Hu in Quart. J. Taiwan Mus. 18 (3-4): 263. 1965.
var. **dubia**.
Himalayas, Punjab.

var. **subdigitata** (Mattf.) Y.R. Ling in Kew Bull. 42: 445. 1987 & in Bull. Bot. Surv. India 33: 306. (1991) 1994.
Artemisia subdigitata Mattf. in Repert. Spec. Nov. Regni Veg. 22: 243. 1926.
Artemisia jacquemontiana Besser in Bull. Soc. Imp. Naturalistes Moscou 8: 59. 1835.
Artemisia royleana DC., Prodr. 6: 115. (1837) 1838; Hook. f., Fl. Brit. India 3: 329. 1881.
Artemisia glauca sensu Hook. f., Fl. Brit. India 3: 322. 1881 non Pall. ex Willd., 1803.
Artemisia desertorum sensu Hook. f., Fl. Brit. India 3: 322. 1881 p.p. non Spreng., 1826.
Artemisia dubia var. *jacquemontiana* (Besser) Pamp. in Nuouv. Giorn. Bot. Ital. n.s. 33: 481. 1926.
Himalayas, NW India.

Artemisia edgeworthii N.P. Balakr. in J. Bombay Nat. Hist. Soc. 63: 329. 1967; Y.R. Ling in Bull. Bot. Surv. India 33: 304. (1991) 1994.
Artemisia stricta Edgew. in Trans. Linn. Soc. London 20: 73. 1846 non B. Heyne ex DC., 1838; Hook. f., Fl. Brit. India 3: 323. 1881.
var. **edgeworthii.**
Himalayas.

var. **diffusa** (Pamp.) Ling. & Y.R. Ling in Acta Phylotax. Sin. 18: 509. 1980; Y.R. Ling in Bull. Bot. Surv. India 33: 304. (1991) 1994.
Artemisia stricta Edgew. forma *diffusa* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 705. 1927.
Himalayas.

Artemisia eriocephala Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 454. 1926.
C to W Himalaya.

Artemisia falconeri C. B. Clarke in Hook. f., Fl. Brit. India 3: 328. 1881.
Artemisia wellbyi Hemsl. & H. Pearson in J. Linn. Soc., Bot. 35: 183. 1902.
Artemisia salsoloides var. *wellbyi* (Hemsl. & H. Pearson) Ostenf. in Hedin, S. Tibet 6 (3): 40. 1922.
C to W Himalaya.

Artemisia filiformilobulata Y.R Ling & Puri in Guihaia 5: 1. 1985; R.R. Rao et al., Fl. ind. enum.-Asterac. 7. 1988.
W Himalaya.

Artemisia gmelinii Weber ex Stechm. in Altern. Leb. Anim. Res. 30. 1775; Y.R. Ling in Bull. Bot. Surv. India 33: 298. (1991) 1994.
Artemisia laciniata sensu Hook. f., Fl. Brit. India 3: 326. 1881 non Willd., 1803.
var. **gmelinii.**
C to W Himalaya.

var. **minor** (Ledeb.) B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 24. 1995.
Artemisia sacrorum var. *minor* Ledeb., Fl. altaic. 4: 72. 1833.
W Himalaya.

Artemisia grandis Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 632. 1927.
W Himalaya.

Artemisia hedinii Ostenf. & Paulson in Hedin, S. Tibet 6 (3): 41, t. 3, f. 1. 1922; Y.R. Ling in Bull. Bot. Surv. India 33: 299. (1991) 1994.
Himalayas.

Artemisia incisa Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 456. 1926; R.R. Rao et al., Fl. ind. enum.-Asterac. 7. 1988.
var. **incisa.**
C to W Himalaya.

var. **kunawarensis** Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 456. 1926; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 27. 1995.
W Himalaya.

Artemisia indica Willd., Sp. pl. 3: 1846. 1803; Y.R. Ling in Kew Bull. 42: 447. 1987 & in Bull. Bot. Surv. India 33: 300. (1991) 1994.
Artemisia dubia forma *communis* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 448. 1926 p.p. (*Artemisia vulgaris* sensu Hook. f., Fl. Brit. India 3: 325. 1881 p.p. quoad Simla, Jacquem., 2474 (K) non L., 1753).

Artemisia dubia var. *multiflora* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 452. 1926 (*Artemisia vulgaris* sensu Hook. f., Fl. Brit. India 3: 325. 1881 p.p. quoad Khasia, Hook. f. & Thomson (K) non L., 1753).
Artemisia dubia forma *congesta* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 450. 1926.
Artemisia vulgaris sensu T. Cooke, Fl. Bombay 2: 105. 1967 (Repr.) non L., 1753.
var. **indica**.
Throughout mountainous parts of India.

var. **dissecta** Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 459. 1926; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 27. 1995.
NE India.

var. **elegantissima** (Pamp.) Y.R. Ling & Humphries in Bull. Bot. Surv. India 33: 301. (1991) 1994.
Artemisia elegantissima Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 454. 1926; K.R. Rao et al., Fl. ind. enum. - Asterac. 7. 1988.
C to W Himalaya.

var. **kumaonensis** (Pamp.) Karthik. & Moorthy comb. nov.
Artemisia elegantissima var. *kumaonensis* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 455. 1926; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 21. 1995.
W Himalaya.

Artemisia japonica Thunb., Fl. jap. 310. 1784; H. Hara, Fl. E. Himal. 333. 1966.
Artemisia parviflora Roxb. ex D. Don, Prodr. fl. nepal. 181. 1825; Hook. f., Fl. Brit. India 3: 322. 1881.
Artemisia japonica var. *parviflora* (Roxb. ex D. Don) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 665. 1927.
Artemisia japonica var. *purandharensis* M.R. Almeida, Fl. Maharashtra 3A: 70. 2001.
var. **japonica**.
Hilly districts throughout India.

var. **lanata** Pamp. in Rend. Sem. Fac. Sci. Univ. Cagl. 8: 3. 1938 & in Nuovo Giorn. Bot. Ital. n.s. 46: 587. 1938; R.R. Rao et al., Fl. ind. enum. -Asterac. 8. 1988.
C to W Himalaya.

Artemisia lactiflora Wall. ex DC., Prodr. 6: 115. (1837) 1838; Y.R. Ling in Bull. Bot. Surv. India 33: 303. (1991) 1994.
Cultivated.

Artemisia lavandulaefolia DC., Prodr. 6: 110. (1837) 1838; Y.R. Ling in Kew Bull. 42: 448. 1987 & in Bull. Bot. Surv. India 33: 301. (1991) 1994.
Artemisia dubia var. *multiflora* Pamp. p.p. quoad India occ., Jacquem. 19 (P).
E Himalaya, NE India.

Artemisia macrantha Ledeb. in Mém. Acad. Imp. Sci. Saint Petersbourg ser. 7, 5: 573. 1815; Y.R. Ling in Bull. Bot. Surv. India 33: 299. (1991) 1994.
NW Himalaya.

Artemisia macrocephala Jacquem. ex Besser in Bull. Soc. Imp. Naturalistes Moscou 9: 28. 1836; Hook. f., Fl. Brit. India 3: 329. 1881.
C to W Himalaya.

Artemisia minor Jacquem. ex Besser in Bull. Soc. Imp. Naturalistes Moscou 9: 22. 1836; Hook. f., Fl. Brit. India 3: 329. 1881; Y.R. Ling in Bull. Bot. Surv. India 33: 297 (1991) 1994.
Himalayas.

Artemisia myriantha Wall. ex Besser in Nouv. Mém. Soc. Imp. Naturalistes Moscou 3: 51. 1834; Y.R. Ling in Kew Bull. 42: 446. 1987 & in Bull. Bot. Surv. India 33: 303. (1991) 1994.
Artemisia vulgaris var. *myriantha* (Wall. ex Besser) C.B. Clarke, Compos. ind. 162. 1876.
Artemisia vulgaris sensu Hook. f., Fl. Brit. India 3: 325. 1881 p.p. (quoad syn. *Artemisia myriantha* Wall. ex Besser).
Artemisia dubia sensu Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 447. 1926.
Artemisia dubia var. *legitima* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 447 - 449. 1926 incl. forma *genuina* & *communis*.
Artemisia dubia var. *acuminata* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 449. 1926.
Artemisia dubia var. *myriantha* (Wall. ex Besser) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 450. 1926.
Artemisia dubia subforma *intermedia* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 449. 1926.
Artemisia dolichocephala Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 175. 1927.
var. **myriantha**.
Himalayas, N & NE India.

var. **pleiocephala** (Pamp.) Y.R. Ling in Kew Bull. 42: 446. 1987.
Artemisia pleiocephala Pamp. in Nuovo Giorn. Bot. Ital. n.s. 36: 446. 1930.
Artemisia vulgaris sensu Hook. f., Fl. Brit. India 3: 325. 1881 p.p. non L., 1753.
Artemisia dubia subforma *pauciflora* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 449. 1926.
Artemisia dubia forma *meridionalis* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 450. 1926.
E Himalaya.

Artemisia nepalensis Nees in Flora 14: 290. 1831; R.R. Rao et al., Fl. ind. enum. Asterac. 8. 1988.
E Himalaya.

Artemisia nilagirica (C.B. Clarke) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 452. 1926; K.M. Matthew, Fl. Tamilnadu Carnatic 3 (1): 765. 1983.
Artemisia vulgaris L. var. *nilagirica* C.B. Clarke, Compos. ind. 162. 1876.
Artemisia indica sensu Wight, Icon. pl. Ind. orient. t. 1112. 1846 non Willd., 1803.
Artemisia vulgaris sensu Hook. f., Fl. Brit. India 3: 325. 1881 non L., 1753 p.p.
var. **nilagirica**.
forma **nilagirica**.
Throughout hilly regions of India.

forma **lobulata** Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 456. 1926; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 37. 1995.
Peninsular India.

var. **septemtrionalis** Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 453. 1926; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 37. 1995.
W Himalaya.

Artemisia pallens Wall. ex DC., Prodr. 6: 120. (1837) 1838; *Hook. f., Fl. Brit. India 3: 329. 1881; Y.R. Ling in Bull. Bot. Surv. India 33: 299. (1991) 1994.
Cultivated.
Note: * Hook. f., op. cit. cited this as a 'Doubtful species'.

Artemisia persica Boiss., Diagn. pl. orient. ser. 1, 6: 91. 1845; Hook. f., Fl. Brit. India 3: 327. 1881.
Alpine W Himalaya.

Artemisia princeps Pamp. in Nuovo Giorn. Bot. Ital. n.s. 36: 444. 1930; S.M. Almeida in J. Econ. Taxon. Bot. addl. ser. 8(1): 236. 1990.
Cultivated.

Artemisia robusta (Pamp.) Ling & Y.R. Ling in Bull. Bot. Surv. India 33: 301. (1991) 1994.
Artemisia strongylocephala Pamp. var. *sinensis* Pamp. forma *robusta* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 178. 1927.
Artemisia dubia var. *myriantha* (Wall. ex Besser) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 36: 381. 1929 p.p.
Himalayas.

Artemisia roxburghiana Wall. ex Besser in Bull. Soc. Imp. Naturalistes Moscou 9: 57. 1836; Hook. f., Fl. Brit. India 3: 326. 1881; Y.R. Ling in Bull. Bot. Surv. India 33: 301. (1991) 1994.
Artemisia dubia forma *acuta* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 452. 1926.
Artemisia dubia forma *ovata* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 452. 1926.
Artemisia dubia forma *simlensis* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 452. 1926.
var. **roxburghiana**.
C to W Himalaya.

var. **acutiloba** Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 174. 1926; B.D. Naithani in Hajra et al. (Eds.), Fl India 12: 39. 1995.
W Himalaya.

var. **grata** (Wall. ex Besser) Hook. f., Fl. Brit. India 3: 326. 1881.
Artemisia grata Wall. ex Besser in Mém. Soc. Imp. Naturalistes Moscou 3: 57. 1834.
W Himalaya.

var. **hypoleuca** (Edgew.) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 173. 1927
Artemisia hypoleuca Edgew. in Trans. Linn. Soc. London, Bot. 20: 71. 1846.
Artemisia roxburghiana var. *grata* sensu Hook. f., Fl. Brit. India 3: 326. 1881 p.p. non Wall. ex Besser, 1834.
W Himalaya.

var. **purpurascens** (Jacquem. ex Besser) Hook. f., Fl. Brit. India 3: 326. 1881.
Artemisia purpurascens Jacquem. ex Besser in Bull. Soc. Imp. Naturalistes Moscou 9: 60. 1836.
Artemisia strongylocephala Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 176. 1927.
Artemisia revoluta Edgew. in Trans. Linn. Soc. London, Bot. 20: 720. 1846.
C to W Himalaya.

Artemisia sacrorum Ledeb. in Mem. Acad. Imp. Sci. Saint Pétersbourg 5: 571. 1805; Hook. f., Fl. Brit. India 3: 326. 1881.
var. **sacrorum**.
C to W Himalaya.

var. **messerschmidtiana** (Besser) Y.R. Ling in Bull. Bot. Surv. India 33: 299. (1991) 1994.
Artemisia messerschmidtiana Besser in Mém. Soc. Imp. Naturalistes Moscou 3: 27. 1834.
Artemisia sacrorum sensu Hook. f., Fl. Brit. India 3: 326. 1881 p.p. non Ledeb., 1805.
NW Himalaya.

Artemisia salsoloides Willd., Sp. pl. 3: 1832. 1803; Hook. f., Fl. Brit. India 3: 321. 1881.
var. **salsoloides**.
W Himalaya.

var. **paniculata** Hook. f., Fl. Brit. India 3: 321. 1881.
NW Himalaya.

Artemisia sieversiana Ehrh. ex Willd., Sp. pl. 3: 1845. 1803; Hook. f., Fl. Brit. India 3: 329. 1881.
C to W Himalaya; cultivated elsewhere.

Artemisia tainingensis Hand.-Mazz. var. **nitida** (Pamp.) Y.R. Ling in Bull. Bot. Surv. India 33: 302. (1991) 1994.
Artemisia moorcroftiana Wall. ex DC. forma *nitida* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 681. 1927.
Artemisia moorcroftiana var. *nitida* (Pamp.) Ling & Y.R. Ling in Acta Phytotax. Sin. 18: 505. 1980.
Artemisia wallichiana forma *nitida* (Pamp.) B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 46. 1995.
NW Himalaya.

Artemisia thellungiana Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 457. 1926.
E Himalaya.

Artemisia tukuchaensis Kitam. in Acta Phytotax. Geobot. 30: 127. 1979 & in H. Hara et al., Enum. fl. pl. Nepal 3: 13. 1982.
C to E Himalaya.

Artemisia velutina Pamp. in Nuovo Giorn. Bot. Ital. n.s. 36: 413. 1930; Y.R. Ling in Bull. Bot. Surv. India 33: 302. (1991) 1994.
NE India, W Himalaya.

Artemisia verlotorum Lamotte in Mem. Assoc. Franc. Cong. Clerm.-Ferr. 1876: 511. 1876; Y.R. Ling in Kew Bull. 42: 447. 1987 & in Bull. Bot. Surv. India 33: 302. (1991) 1994.
Artemisia leptostachya DC., Prodr. 6: 113. (1837) 1838 p.p. quoad Himal., Edgew. 110 (K).
Artemisia dubia subforma *pubertula* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 448. 1926 (*Artemisia vulgaris* sensu Hook. f., Fl. Brit. India 3: 325. 1881 p.p. quoad Kumaon, Wall. in K-Wall. 3293/403 non L., 1753).
Artemisia dubia forma *leptostachya* (DC.) Pamp. in Nuovo Giorn. Bot. Ital. n.s. 33: 450. 1926 p.p.
Himalayas, NE India.

Artemisia vestita Wall. ex Besser in Nouv. Mém. Soc. Imp. Naturalistes Moscou 3: 25. 1834; Hook. f., Fl. Brit. India 3: 326. 1881; Y.R. Ling in Bull. Bot. Surv. India 33: 299. (1991) 1994.
Artemisia gmelinii var. *vestita* (Wall. ex Besser) B.D. Naithani in Hajra et al. (Eds.), Fl. India 12 : 24. 1995.
Himalayas.

Artemisia wallichiana Besser in Nouv. Mém. Soc. Imp. Naturalistes Moscou 3: 69. 1834; Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 13. 1982; Y.R. Ling in Bull. Bot. Surv. India 33: 303 (1991) 1994.
Artemisia moorcroftiana Wall. ex DC., Prodr. 6: 117. (1837) 1838; Hook. f., Fl. Brit. India 3: 327. 1881.
Artemisia brunnea Pamp. in Rend. Sem. Fac. Sci. Univ. Cagl. 8: 2. 1938.
Artemisia strongylocephala var. *cachemirica* Pamp. in Nuovo Giorn. Bot. Ital. n.s. 34: 176. 1927.
W Himalaya.

Species of doubtful occurrence:
Artemisia decaisnei Klatt in Abh. Nat. Ges. Halle 15: 329. 1882.
India, without precise locality.

ARTEMISIELLA Ghafoor in Candollea 47: 636. 1992.

Artemisiella stracheyi (Hook. f. & Thomson ex C.B. Clarke) Ghafoor in Candollea 47: 642. 1992.
Artemisia stracheyi Hook f. & Thomson ex C.B. Clarke, Compos. ind. 164. 1876; Hook. f., Fl. Brit. India 3: 328. 1881.
W Himalaya.

ASTER L., Sp. pl. 872. 1753.
CHLAMYDITES J.R. Drumm. in Kew Bull. 1907: 90. 1907.

Aster ageratoides Turcz. in Bull. Soc. Imp. Naturalistes Moscou 7: 154. 1837; Grierson in Notes Roy. Bot. Gard. Edinburgh 28: 227. 1968.

Aster trinervius D. Don, Prodr. fl. nepal. 177. 1825 non Nees, 1818; Hook. f., Fl. Brit. India 3: 252. 1881.
Aster wattii C.B. Clarke in J. Linn. Soc., Bot. 25: 36. 1889.
Aster trinervius var. *wattii* (C.B. Clarke) Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 101. 1964.
Aster trinervius ssp. *ageratoides* (Turcz.) Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 102. 1964.
Aster ageratoides ssp. *alato-petiolata* Kitam. in H. Kihara (Ed.), Fauna & fl. Nepal Himal. 1: 247. 1955.
Himalayas, NE India.

Aster albescens (DC.) Wall. ex Kochne, Deut. Dendrol. 562. 1893; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 105. 1964.
Amphirhapis albescens DC., Prodr. 5: 343. 1836.
Microglossa albescens (DC.) C.B. Clarke, Compos. ind. 59. 1876; Hook. f., Fl. Brit. India 3: 257. 1881.
var. **albescens**.
Himalayas.

var. **glandulosus** Hand.-Mazz. in J. Bot. 76: 284. 1938; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 109. 1964.
Himalayas.

var. **niveus** Hand.-Mazz. in Acta Horti Gothob. 12: 208. 1938; R.R. Rao et al., Fl. ind. enum. - Asterac. 10. 1988.
Microglossa albescens var. *nivea* C.B. Clarke ex Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 109. 1964.
Himalayas, NE India.

Aster altaicus Willd., Enum. pl. 881. 1809; Hook. f., Fl. Brit. India 3: 251. 1881.
Heteropappus altaicus (Willd.) Novopokr. in Spisok Rast. Gerb. Russk. Fl. Bot. Muz. Rossijsk. Akad. Nauk 6: 193. 1922.
Heteropappus semiprostratus Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 151. 1964.
C to W Himalaya.

Aster amellus L., Sp. pl. 873. 1753; Hook. f., Fl. Brit. India 3: 249. 1881; Chandrab. & N.C. Nair, Fl. Coimbatore 163. 1988.
Cultivated.

Aster asteroides (DC.) Kuntze, Revis. gen. pl. 1: 315. 1891; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 366. 1984.
Heterochaeta asteroides DC., Prodr. 5: 282. 1836.
Aster heterochaeta Benth. in Benth. & Hook. f., Gen. pl. 2: 272. 1873; Hook. f., Fl. Brit. India 3: 250. 1881.
Aster hedinii Ostenf. in Hedin, S. Tibet 6(3) : 37. 1922.
ssp. **asteroides**.
Alpine Himalayas.

ssp. **costei** (H. Lév.) Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 106. 1964.
Aster costei H. Lév. in Bull. Acad. Int. Géogr. Bot. 24: 14. 1915.
Aster likiangensis Franch. in J. Bot. (Morot) 10: 370. 1896.
E Himalaya.

Aster barbellatus Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 119. 1964.
C to E Himalaya.

Aster diplostephioides (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 272. 1873; Hook. f., Fl. Brit. India 3: 251. 1881.
Heterochaeta diplostephioides DC., Prodr. 5: 282. 1836.
Alpine Himalayas.

Aster ericoides L., Sp. pl. 875. 1753; Raizada & H.O. Saxena, Fl. Mussoorie 1: 378. 1978.
Cultivated.

Aster falconeri (C.B. Clarke) Hutch. in Gard. Chron. ser. 3, 47: 389. 1910; M.A. Rau, High alt. fl. pl. W. Himal. 129. 1975.
Aster diplostephioides var. *falconeri* C.B. Clarke, Compos. ind. 45. 1876.
ssp. **falconeri.**
W. Himalaya.

ssp. **nepalensis** Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 141. 1964; M.A. Rau, High alt. fl. pl. W. Himal. 129. 1975.
C to W Himalaya.

Aster flaccidus Bunge in Mém. Acad. Imp. Sci. St.-Pétersbourg Divers Savans 2: 599. 1835; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 129. 1964.
Aster tibeticus Hook. f., Fl. Brit. India 3: 251. 1881 p.p.
ssp. **flaccidus.**
forma **flaccidus.**
Alpine Himalayas.

forma **griseobarbatus** Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 131. 1964; R.R. Rao et al., Fl. ind. enum.- Asterac. 11. 1988.
E Himalaya, NE India.

ssp. **glandulosus** (Keissl.) Onno in Biblioth. Bot. 26 (106): 66. 1932; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 132. 1964; M.A. Rau, High alt. fl. pl. W. Himal. 129. 1975.
Aster flaccidus var. *glandulosus* Keissl. in Ann. K.K. Naturhist. Hofmus. 22: 26. 1907.
Alpine W Himalaya.

Aster heliopsis Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 124. 1964.
C to E Himalaya.

Aster himalaicus C.B. Clarke, Compos. ind. 43. 1876; Hook. f., Fl. Brit. India 3: 250. 1881.
Himalayas.

Aster indamellus Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 87. 1964; M.A. Rau, High alt. fl. pl. W. Himal. 129. 1975.
Aster pseudamellus Hook. f., Fl. Brit. India 3: 249. 1881 non Wender., 1831.
W Himalaya.

Aster laka C.B. Clarke, Compos. ind. 49. 1876; Hook. f., Fl. Brit. India 3: 253. 1881.
W Himalaya.

Aster molliusculus (Lindl. ex DC.) C.B. Clarke, Compos. ind. 45. 1876; Hook. f., Fl. Brit. India 3: 251. 1881.
Diplopappus molliusculus Lindl. ex DC., Prodr. 5: 277. 1836.
var. **molliusculus.**
Himalayas.

var. **minor** Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 115. 1964.
W Himalaya.

Aster neoelegans Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 118. 1964.
E Himalaya.

Aster peduncularis Wall. ex Nees, Gen. sp. Aster. 24. 1832; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 163. 1964.
Amphirhapis aspertulus DC., Prodr. 5: 344. 1836.
Aster aspertulus (DC.) Hook. f., Fl. Brit. India 3: 252. 1881.
var. **peduncularis**.
NE India, W Himalaya.

var. **nepalensis** Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 95. 1964.
C Himalaya.

Aster pilosus Willd. var. **demotus** S.F. Blake in Rhodora 32: 129. 1930; M.K. Kaul in J. Bombay Nat. Hist. Soc. 72: 609. 1976.
NW Himalaya.

Aster platylepis Y.L. Chen in Kew Bull. 39: 159. 1984.
Doronicum latisquamatum C.E.C. Fisch. in Kew Bull. 1937: 98. 1937 non *Aster latisquamatum* (Maxim.) Hand.-Mazz., 1938.
E Himalaya.

Aster prainii (J.R. Drumm.) Y.L. Chen, Geol. Ecol. Studies Qinghai - Xizang Plateau 2: 1314. 1981; Grierson & Spring, in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1536. 2001.
Chlamydites prainii J.R. Drumm. in Bull. Misc. Inform. 1907: 91. 1907.
Himalayas.

Aster pycnophyllus W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 8: 332. 1915; R.R. Rao et al., Fl. ind. enum.- Asterac. 12. 1988.
NE India.

Aster sikkimensis Hook. f. & Thomson in Curtis, Bot. Mag. (Ed. Hook.) 77: t. 4557. 1851; Hook. f., Fl. Brit. India 3: 252. 1881.
C to E Himalaya.

Aster souliei Franch. in J. Bot. (Morot) 10: 372. 1896; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 145. 1964.
Aster limitaneus W.W. Sm. & Farrer in Notes Roy. Bot. Gard. Edinburgh 9: 80. 1916.
Aster souliei var. *limitaneus* (W.W. Sm. & Farrer) Hand.-Mazz. in Notizbl. Bot. Gart. Berlin-Dahlem 13: 620. 1937.
Aster forrestii Stapf in Curtis, Bot. Mag. (Ed. Stapf) 152: t. 9123. 1927.
Aster gantum Kitam. in Acta Phytotax. Geobot. 15: 40. 1953.
E Himalaya.

Aster stracheyi Hook. f., Fl. Brit. India 3: 250. 1881.
Himalayas.

Aster thomsonii C.B. Clarke, Compos. ind. 48. 1876; Hook. f., Fl. Brit. India 3: 252. 1881.
W Himalaya.

Aster tibeticus Hook. f., Fl. Brit. India 3: 251. 1881.
W Himalaya.

Aster tricephalus C.B. Clarke, Compos. ind. 43. 1876; Hook. f., Fl. Brit. India 3: 250. 1881.
Himalayas.

Aster vestitus Franch. in J. Bot. (Morot) 10: 378. 1896; Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 89. 1964; R.R. Rao et al., Fl. ind. enum.- Asterac.13. 1988.
Aster sherriffianus Hand.-Mazz. in J. Bot. 76: 285. 1938
E Himalaya.

ATHROISMA DC. in Arch. Bot. (Paris) 2: 516. 1833.

Athroisma laciniatum DC., Prodr. 5: 369. 1836; Hook. f., Fl. Brit. India 3: 276. 1881.
E to NE India, Sub Himalayan tracts, Upper Gangetic Plains.

AYAPANA Spach, Hist. nat. vég. 10: 290. 1841.

Ayapana triplinervius (Vahl) R.M. King & H. Rob. in Phytologia 20: 212. 1970; S.M. Almeida in J. Econ. Taxon. Bot. addl. ser. 8 (1): 236. 1990.
Eupatorium triplinerve Vahl, Symb. bot. 3: 97. 1794.
Eupatorium ayapana Vent., Jard. Malmaison t. 3. 1803; Hook. f., Fl. Brit. India 3: 244. 1881.
Introduced.

BELLIS L., Sp. pl. 886. 1753.

Bellis perennis L., Sp. pl. 886. 1753; M.K. Kaul, Weed fl. Kashmir valley 147. 1986.
Cultivated.

BIDENS L., Sp. pl. 831. 1753.

Bidens bipinnata L., Sp. pl. 832. 1753; J. Kost. in Blumea 25: 262. 1979.
Bidens pilosa var. *bipinnata* (L.) Hook. f., Fl. Brit. India 3: 309. 1881.
Bidens decomposita Wall. in DC., Prodr. 5: 602. 1836.
Bidens pilosa var. *decomposita* (Wall.) Hook. f., Fl. Brit. India 3: 310. 1881.
Himalayas, N & S India.

Bidens biternata (Lour.) Merr. & Sherff in Bot. Gaz. (Crawfordsville) 88: 293. 1929; Santapau in Rec. Bot. Surv. India 16 (1): 133. 1967 (3rd rev. ed.).
Coreopsis biternata Lour., Fl. cochinch. 508. 1790.
Bidens pilosa sensu Hook. f., Fl. Brit. India 3: 309. 1881 p.p. non L., 1753.
Bidens wallichii DC., Prodr. 5: 598. 1836.
Throughout India.

Bidens cernua L., Sp. pl. 832. 1753; Hook. f., Fl. Brit. India 3: 309. 1881.
C to W Himalaya.

Bidens connosa Wiegand in Bull. Torrey Bot. Club 24: 436. 1897; R. Mathur & Uniyal in J. Econ. Taxon. Bot. 6: 405. 1985.
Himachal Pradesh.

Bidens cynapiifolia Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 185 & (ed. quarto) 73. 1820; C.P. & R.R.V. Raju in Rheedea 5: 43, f. 1, A-K. 1995.
Andhra Pradesh, NW Himalaya.

Bidens humilis Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 184. 1820; R.R. Rao et al., Fl. ind. enum. -Asterac. 13. 1988.
Cultivated.

Bidens minima Huds., Fl. angl. 310. 1762; Majeed Kak & Javeid in Curr. Sci. 44: 644. 1975.
NW Himalaya.

Bidens pilosa L., Sp. pl. 832. 1753; Hook. f., Fl. Brit. India 3: 309. 1881.
var. **pilosa**.
Throughout India.

var. **minor** (Blume) Sherff in Bot. Gaz. (Crawfordsville) 80: 387. 1925; Dakshini & Prithipalsingh in Proc. Indian Acad. Sci. (Plant Sci.) 93: 172. 1984.
Bidens sundaica Blume var. *minor* Blume, Bijdr. 914. 1826.
Throughout India.

Bidens sulphurea (Cav.) Sch.Bip. in Seem., Bot. voy. Herald 308. 1856; R.R. Rao et al., Fl. ind. enum.-Asterac. 14. 1988.
Cosmos sulphureus Cav., Icon. 1: 56, t. 79. 1791; Burkill in Rec. Bot. Surv. India 4: 115. 1910.
Garden escape.

Bidens tetraspinosa Majeed Kak & Javeid in J. Bombay Nat. Hist. Soc. 79: 175. 1982.
NW Himalaya.

Bidens tripartita L., Sp. pl. 831. 1753; Hook. f., Fl. Brit. India 3: 309. 1881.
var. **tripartita**.
Himalayas.

var. **repens** (D. Don) Sherff in Bot. Gaz. (Crawfordsville) 81: 45. 1926; Lauener in Notes Roy. Bot. Gard. Edinburgh 34: 343. 1975.
Bidens repens D. Don, Prodr. fl. nepal. 180. 1825.
C to W Himalaya.

Bidens triplinervia Kunth var. **macrantha** (Wedd.) Sherff in Bot. Gaz. (Crawfordsville) 80: 383. 1925; V. Chandras. in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 30. 1987.
Bidens humilis Kunth var. *macrantha* Wedd., Chlor. andina 1: 69. 1856.
Woed.

BLAINVILLEA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 29: 493. 1823.

Blainvillea acmella (L.) Philipson in Blumea 6: 350. 1950.
Verbesina acmella L., Sp. pl. 901. 1753.
Eclipta latifolia L. f., Suppl. pl. 376. 1782.
Blainvillea rhomboidea Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 29: 494. 1823.
Blainvillea latifolia (L.f.) DC. in Wight, Contr. bot. India 17. 1834; Hook. f., Fl. Brit. India 3: 305. 1881.
Throughout India.

BLEPHARISPERMUM DC. in Wight, Contr. bot. India 11. 1834.

Blepharispermum petiolare DC. in Wight, Contr. bot. India 12. 1834; Hook. f., Fl. Brit. India 3: 276. 1881.
SW Ghats (Kerala, Tamilnadu).

Blepharispermum subsessile DC. in Wight, Contr. bot. India 12. 1834; Hook. f., Fl. Brit. India 3: 276. 1881.
C & Peninsular India.

BLUMEA DC. in Arch. Bot. (Paris) 2: 514. 1833 nom. cons.

Blumea aromatica DC., Prodr. 5: 88. 1836; Hook. f., Fl. Brit. India 3: 270. 1881.
E N & NE India, Tropical Himalayas.

Blumea atropurpurea Haines, Bot. Bihar Orissa 469. 1922 (2: 492. 1961, Repr.).
E India, Maharashtra.

Blumea axillaris (Lam.) DC., Prodr. 5: 434. 1836; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2 (3): 1504. 2001.
Conyza axillaris Lam., Encycl. 2: 84. 1786.
Gnaphalium solidaginoides Poir. in Lam., Encycl. suppl. 2: 805. 1812.
Erigeron molle D. Don, Prodr. fl. nepal. 172. 1825.
Blumea wightiana DC. in Wight, Contr. bot. India 14. 1834; Hook. f., Fl. Brit. India 3: 261. 1881.
Blumea solidaginoides (Poir.) DC., Prodr. 5: 443. 1836; M.R. Almeida, Fl. Maharashtra 3A: 85.2001.
Blumea neilgherrensis Hook. f., Fl. Brit. India 3: 261. 1881.
Blumea mollis (D. Don) Merr. in Philipp. J. Sci. 5: 395. 1910; Randeria in Blumea 10: 261. 1960.
Throughout India.

Blumea balsamifera (L.) DC., Prodr. 5: 466. 1836; Hook. f., Fl. Brit. India 3: 270. 1881.
Conyza balsamifera L., Sp. pl. ed. 2. 1208. 1763.
Andaman & Nicobar Islands, C to E Himalaya, E & NE India.

Blumea barbata DC. in Wight, Contr. bot. India 14. 1834; Hook. f., Fl. Brit. India 3: 262. 1881.
SW Ghats.

Blumea belangeriana DC., Prodr. 5: 444. 1836; Hook. f., Fl. Brit. India 3: 266. 1881.
NE & Peninsular India.

Blumea bifoliata (L.) DC. in Wight, Contr. bot. India 14. 1834; Hook. f., Fl. Brit. India 3: 261. 1881.
Conyza bifoliata L., Sp. pl. ed. 2. 1207. 1763.
Throughout India.

Blumea bovei (DC.) Vatke in Linnaea 39: 485. 1875; G.L. Shah, Fl. Gujarat 372. 1978.
Conyza bovei DC. in Ann. Sci. Nat. Bot. ser. 2,1: 261. 1834.
Gujarat.

Blumea clarkei Hook. f., Fl. Brit. India 3: 267. 1881; Randeria in Blumea 10: 252. 1960.
Blumea malabarica Hook. f., Fl. Brit. India 3: 267. 1881.
Andaman & Nicobar Islands, E Himalaya, E NE & Peninsular India.
Note: *Blumea hirsuta* (Less.) M.R. Almeida, Fl. Maharashtra 3A: 79. 2001 is based on a Chinese plant *Pluchea hirsuta* Less. in Linnaea 6: 150. 1831.

Blumea densiflora DC., Prodr. 5: 446. 1836; Hook. f., Fl. Brit. India 3: 269. 1881.
Himalayas, NE India.

Blumea eriantha DC. in Wight, Contr. bot. India 15. 1834; Hook. f., Fl. Brit. India 3: 266. 1881.
Throughout India.

Blumea fistulosa (Roxb.) Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 46: 187. 1877; Randeria in Blumea 10: 256. 1960.
Conyza fistulosa Roxb., Fl. ind. (Ed. Carey) 3: 422. 1832.
Blumea glomerata DC. in Wight, Contr. bot. India 15. 1834; Hook. f., Fl. Brit. India 3: 262. 1881.
Blumea nodiflora Hook. f., Fl. Brit. India 3: 262. 1881*.
Throughout India including tropical Himalayas.
Note: * Hook. f., op.cit. reported from Myanmar (Burma).

Blumea hieracifolia (D.Don) DC. in Wight, Contr. bot. India 15. 1834; Hook. f., Fl. Brit. India 3: 263. 1881.
Erigeron hieracifolium D. Don, Prodr. fl. nepal. 272. 1825.
Blumea sericans Hook. f., Fl. Brit. India 3: 262. 1881*.
var. **hieracifolia.**
Throughout India.

var. **flexuosa** (C.B. Clarke) Randeria in Blumea 10: 249. 1960.
Blumea flexuosa C.B. Clarke, Compos. ind. 86. 1876; Hook. f., Fl. Brit. India 3: 267. 1881.
Blumea flexuosa var. *peninsularis* Hook. f., Fl. Brit. India 3: 267. 1881.
Blumea flexuosa var. *zeylanica* Hook. f., Fl. Brit. India 3: 267. 1881.
Peninsular India.

var. **hamiltonii** (DC.) C.B. Clarke, Compos. ind. 82. 1876; Hook. f., Fl. Brit. India 3: 263. 1881.
Blumea hamiltonii DC., Prodr. 5: 439. 1836.
Almost throughout India
Note: * Hook. f., op cit reported from Bangladesh (Chittagong) and Myanmar (Burma).

Blumea hookeri C.B. Clarke ex Hook. f., Fl. Brit. India 3: 269. 1881.
Andaman & Nicobar Islands, E Himalaya, NE India.

Blumea junghuhniania (Miq.) Boerl., Handl. fl. Ned. Ind. 2 : 239. 1891; N.P. Balakr. in Bull. Bot. Surv. India 24: 63. (1982) 1983.
Conyza junghuhniania Miq., Pl. jungh. 449. 1855.
Andaman & Nicobar Islands.

Blumea lacera (Burm.f.) DC. in Wight, Contr. bot. India 14. 1834; Hook. f., Fl. Brit. India 3: 263. 1881.
Conyza lacera Burm. f., Fl. indica 180, t. 59, f.1. 1768.
Blumea glandulosa DC. in Wight, Contr. bot. India 14. 1834.
Blumea cinerascens DC., Prodr. 5: 438. 1836.
Blumea subcapitata DC., Prodr. 5: 439. 1836; Hook. f., Fl. Brit. India 3: 261.1881.
Blumea lacera var. *cinerascens* (DC.) Hook. f., Fl. Brit. India 3: 263.1881.
Blumea lacera var. *glandulosa* (DC.) Hook. f., Fl. Brit. India 3: 263.1881.
var. **lacera.**
Throughout the plains of India.

var. **burmanni** Haines, Bot. Bihar Orissa 2:470. 1922 (2: 493. 1967, Repr.).
E India.

var. **erianthoides** Haines, Bot. Bihar Orissa 2: 470. 1922 (2: 494. 1967, Repr.).
E India.

Blumea laevis (Lour.) Merr. in Trans. Amer. Philos. Soc. n.s. 24: 386. 1935.
Placus laevis Lour., Fl. cochinch. 497. 1790.
Blumea virens Wall. ex DC. in Wight, Contr. bot. India 14. 1834; Hook. f., Fl. Brit. India 3: 264. 1881.
var. **laevis.**
Throughout India.

var. **minor** (Hook.f.) Karthik. & Moorthy comb. nov.
Blumea virens var. *minor* Hook. f., Fl. Brit. India 3: 264. 1881.
Andaman and Nicobar Islands, E NE & Peninsular India.

Blumea lanceolaria (Roxb.) Druce in Bot. Soc. Exch. Club Brit. Isles 4:609. 1917; Randeria in Blumea 10: 218. 1960.
Conyza lanceolaria Roxb., Fl. ind. (Ed. Carey) 3: 432. 1832.
Blumea myriocephala DC., Prodr. 5: 445. 1836; Hook. f., Fl. Brit. India 3: 269. 1881.
Blumea sessilifolia Kurz in J. Asiat. Soc. Bengal 2: 189. 1877 non DC., 1836; Deb, Fl. Tripura 2: 207. 1983.
var. **lanceolaria.**
Almost throughout India including Andaman & Nicobar Islands.

var. **spectabilis** (DC.) Randeria in Blumea 10: 220. 1960.
Blumea spectabilis DC., Prodr. 5: 445. 1836; Hook. f., Fl. Brit. India 3: 269. 1881.
Blumea spectabilis var. *longifolia* Hook. f., Fl. Brit. India 3: 269. 1881.
Peninsular India.

Blumea macrostachya DC., Prodr. 5: 442. 1836; Burkill in Rec. Bot. Surv. India 10 (2): 306. 1925.
Blumea hieracifolia var. *macrostachya* (DC.) Hook. f., Fl. Brit. India 3: 263. 1881.
E NE & Peninsular India, Upper Gangetic Plains.

Blumea malcolmii (C.B. Clarke) Hook. f., Fl. Brit. India 3: 266. 1881; Randeria in Blumea 10: 278 1960.
Pluchea malcolmii C.B. Clarke, Compos. ind. 95. 1876.
C to Peninsular India.

Blumea martiniana Vaniot in Bull. Acad. Int. Géogr. Bot. 12: 26. 1903; R.R. Rao et al., Fl. ind. enum. Asterac. 17. 1988.
Blumea henryi Dunn in J. Linn. Soc., Bot. 35: 503. 1903; Randeria in Blumea 10: 233. 1960.
Arunachal Pradesh

Blumea megacephala (Randeria) C.C. Chang & Y.Q. Tseng in Acta Phytotax. Sin. 12: 310. 1974; Sarv.Kumar in Hajra et al. (Eds.), Fl. India 13: 133. 1995.
Blumea riparia (Blume) DC. var. *megacephala* Randeria in Blumea 10: 215. 1960.
Nagaland.

Blumea obliqua (L.) Druce in Bot. Soc. Exch. Club Brit. Isles 4: 609. 1917; Randeria in Blumea 10: 286. 1960.
Erigeron obliquum L., Mant. pl. 2: 573. 1771.
Blumea amplectens DC. in Wight, Contr. bot. India 13. 1834; Hook. f., Fl. Brit. India 3: 260. 1881.
Blumea arenaria DC. in Wight, Contr. bot. India 13. 1834.
Blumea pubiflora DC., Prodr. 5: 434. 1836.
Blumea amplectens var. *arenaria* (DC.) Hook. f., Fl. Brit. India 3: 260. 1881.
Blumea amplectens var. *pubiflora* (DC.) Hook. f., Fl. Brit. India 3: 260. 1881.
Blumea amplectens var. *tenella* Hook. f., Fl. Brit. India 3: 260. 1881.
Blumea amplectens var. *maritima* C.B. Clarke ex Hook. f., Fl. Brit. India 3: 260. 1881.
Blumea obliqua var. *pubiflora* (DC.) Maheshw. in J. Bombay Nat. Hist. Soc. 54: 805. 1957.
Blumea obliqua var. *arenaria* (DC.) Maheshw. in J. Bombay Nat. Hist. Soc. 54: 805. 1957.
Blumea obliqua var. *tenella* (Hook. f.) Maheshw. in J. Bombay Nat. Hist. Soc. 54: 805. 1957.
Blumea obliqua var. *maritima* (C.B. Clarke) Maheshw. in J. Bombay Nat. Hist. Soc. 54: 805. 1957.
Throughout India including Andaman & Nicobar Islands.

Blumea oxyodonta DC. in Wight, Contr. bot. India 15. 1834; Hook. f., Fl. Brit. India 3: 266. 1881.
Throughout India.

Blumea procera DC., Prodr. 5: 445. 1836; Hook. f., Fl. Brit. India 3: 268. 1881.
Andaman & Nicobar Islands, NE India, Tropical Himalayas, Upper Gangetic plains.

Blumea pubigera (L.) Merr. in Philipp. J. Sci. 14: 250. 1919.
Conyza pubigera L., Mant. pl. 1: 113. 1767.
Blumea chinensis DC., Prodr. 5: 444. 1836 p.p. non *Conyza chinensis* L., 1753; Hook. f., Fl. Brit. India 3: 268. 1881 p.p.
E Himalaya, NE India.

Blumea riparia (Blume) DC., Prodr. 5: 444. 1836; Randeria in Blumea 10: 213. 1960.
Conyza riparia Blume, Bijdr. 899. 1826.

Blumea chinensis DC., Prodr. 5: 444. 1836 p.p. non *Conyza chinensis* L., 1753; Hook. f., Fl. Brit. India 3: 268. 1881 p.p.
Andaman & Nicobar Islands, E Himalaya, Maharashtra, NE India.

Blumea sessiliflora Decne. in Nouv. Ann. Mus. Hist. Nat. 3: 140. 1834; N.P. Balakr., Fl. Jowai 1: 275. 1981.
Blumea glomerata sensu Hook. f., Fl. Brit. India 3: 262. 1881 p.p. non DC., 1836.
Blumea fasciculata DC., Prodr. 5: 442. 1836.
Andaman & Nicobar Islands, E NE & Peninsular India.

Blumea sikkimensis Hook. f., Fl. Brit. India 3: 268. 1881.
E Himalaya.

Blumea sinuata (Lour.) Merr. in Trans. Amer. Philos. Soc. n.s. 24 : 388. 1935; K.K. & S. Sharma, Fl. Rajasthan 104. 1989.
Gnaphalium sinuatum Lour., Fl. cochinch. 2: 497. 1790.
Conyza laciniata Roxb., Fl. ind. (Ed. Carey) 3: 427. 1832.
Blumea laciniata (Roxb.) DC., Prodr. 5: 436. 1836; Hook. f., Fl. Brit. India 3: 264. 1881.
Blumea lacera var. *blumei* DC., Prodr. 5: 436. 1836; J. Kost. in Blumea 20: 223. 1972.
Throughout India including Andaman & Nicobar Islands.

Blumea sonbhadrensis S. Narain, Lata & Juhi Singh in Indian J. Forest. 31: 443, f. 1. 2008.
Uttar Pradesh.

Blumea venkataramanii R.S. Rao & Hemadri in Curr. Sci. 42: 693. 1973.
Maharashtra.

Excluded species:
Blumea squarrosa DC., Prodr. 5: 445. 1836, Kanjilal et al., Fl. Assam 3: 113. 1938.
NE India.

BLUMEOPSIS Gagnep. in Bull. Mus. Hist. Nat. (Paris) 26: 75. 1920.

Blumeopsis flava (DC.) Gagnep. in Bull. Mus. Hist. Nat. (Paris) 26: 76. 1920; Ludlow & P.H. Raven in Kew Bull. 17: 71. 1963.
Blumea flava DC., Prodr. 5: 439. 1836.
Laggera flava (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 290. 1873; Hook. f., Fl. Brit. India 3: 270. 1881.
Throughout India.

BRACHYACTIS Ledeb., Fl. ross. 2: 495. 1845.

Brachyactis anomalum (DC.) Kitam. apud H. Hara in Univ. Mus. Univ. Tokyo Bull. 8: 113. 1975.
Erigeron anomalum DC., Prodr. 5: 293. 1836.
Brachyactis menthodora Benth. in Hooker's Icon. Pl. ser. 3, 12: t. 1106. 1876; Hook. f., Fl. Brit. India 3: 253. 1881.
Alpine Himalayas.

Brachyactis pubescens (DC.) Aitch. & C.B. Clarke in J. Linn. Soc., Bot. 18: 68. 1880; N.C. Nair, Fl. Bashahr Himal. 146. 1977.
Conyza pubescens DC., Prodr. 5: 381. 1836.
Brachyactis robusta Benth. in Hooker's Icon. Pl. ser. 3, 12: sub t. 1106. 1876; Hook. f., Fl. Brit. India 3: 254. 1881.
Alpine C to W Himalaya.

Brachyactis roylei (DC.) Wendelbo in Nytt Mag. Bot. 1: 62. 1952; Kitam. & S. Gould in H. Hara et al., Enum. fl. pl. Nepal 3: 17. 1982.

Conyza roylei DC., Prodr. 5: 381. 1836.
Brachyactis umbrosa Benth. in Hooker's Icon. Pl. ser. 3, 12: sub t. 1106. 1876; Hook. f., Fl. Brit. India 3: 253. 1881.
Alpine C to W Himalaya.

BRACHYCOME Cass. in Bull. Sci. Soc. Philom. Paris 1816: 199. 1816.

Brachycome assamica C.B. Clarke, Compos. ind. 40. 1776; Hook. f., Fl. Brit. India 3: 248. 1881.
NE India

Brachycome iberidifolia Benth., Pl. hartw. 1: 59. 1840; K.K. & S. Sharma, Fl. Rajasthan 105. 1989.
Cultivated.

CAESULIA Roxb., Pl. Coromandel 1: 64. 1798.

Caesulia axillaris Roxb., Pl. Coromandel 1: 64, t. 93. 1798; Hook. f., Fl. Brit. India 3: 291. 1881.
Throughout India.

CALENDULA L., Sp. pl. 921. 1753.

Calendula arvensis L., Sp. pl. ed. 2. 1303. 1763; Hook. f., Fl. Brit. India 3: 358. 1881.
W Himalaya.

Calendula officinalis L., Sp. pl. 921. 1753; Hook. f., Fl. Brit. India 3: 357. 1881.
Cultivated.

CALLISTEPHUS Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 37: 491. 1825 nom. cons.

Callistephus chinensis (L.) Nees, Gen. sp. Aster. 222. 1832.
Aster chinensis L., Sp. pl. 872. 1753.
Callistephus hortensis Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 37: 491. 1825; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 372. 1984.
Cultivated.

CALOTIS R. Br. in Bot. Reg. (Ed. Ker Gawl.) 6: t. 504. 1820.

Calotis hispidula (F. Muell.) F. Muell. in Trans. & Proc. Victorian Inst. Advancem. Sci. 129. 1855; B.M. Sharma & Jamwal in Indian J. Forest. 7: 333, f. 1. 1984.
Cheiroloma hispidulum F. Muell. in Linnaea 25: 401. 1852.
Weed in NW Himalaya.

CARDUUS L., Sp. pl. 820. 1753.

Carduus crispus L., Sp. pl. 821. 1753; Hajra in Hajra et al. (Eds.), Fl. India 12: 158. 1995.
NW Himalaya.

Carduus edelbergii Rech. f. in K. Danske Vid. Selsk. Biol. Skrift. 8 (2): 175. 1955; R.R. Rao et al., Fl. ind. enum. -Asterac. 21. 1988.
Carduus nutans sensu Hook. f., Fl. Brit. India 3: 361. 1881 non L., 1753.
Carduus onopordioides Fisch. ex M. Bieb., Fl. taur.-caucas. 3: 552. 1819.
Carduus edelbergii Rech. f. ssp. *lanatus* Kazmi in Mitt. Bot. Staatssamml. München 5: 347. 1964.
W Himalaya.

Carduus kumaunensis (Arènes) Kazmi in Mitt. Bot. Staatssamml. München 5: 364. 1964; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 124. 1983.

Carduus crispus ssp. *kumaunensis* Arènes in Mem. Mus. Nat. Nouv. 24: 189. 1949.
W Himalaya.

Carduus pycnocephalus L., Sp. pl. 1151. 1753; R.R. Rao et al., Fl. Ind. enum.- Asterac. 21. 1988.
NW Himalaya.

Carduus tenuiflorus Curtis, Fl. londin. fasc. 6: t. 55. 1789; Azad & Javeid in J. Bombay Nat. Hist. Soc. 75: 249, f. 1. 1978.
NW Himalaya.

CARPESIUM L., Sp. pl. 859. 1753.

Carpesium abrotanoides L., Sp. pl. 860. 1753; Hook. f., Fl. Brit. India 3: 301. 1881.
Himalayas.

Carpesium nepalense Less. in Linnaea 6: 234. 1832; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1492. 2001
Carpesium cernuum sensu Hook. f., Fl. Brit. India 3: 300. 1881 non L., 1753.
var. nepalense.
NE India, Nilgiris, Temperate Himalayas.

var. **ciliatum** (Hook. f.) Sarv.Kumar in R.R. Rao et al., Fl. ind. enum. -Asterac. 21. 1988.
Carpesium cernuum var. *ciliatum* Hook. f., Fl. Brit. India 3: 301. 1881.
Kerala.

var. griffithii (Hook.f.) Sarv.Kumar in R.R. Rao et al., Fl. ind. enum.-Asterac. 22. 1988.
Carpesium cernuum var. *griffithii* Hook. f., Fl. Brit. India 3: 301. 1881.
E Himalaya, NE India.

var. **lanatum** (Hook. f. & Thomson ex C.B. Clarke) **Kitam.** in H. Hara, Fl. E. Himal. 335. 1966.
Carpesium cernuum var. *lanatum* Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 1304. 1876; Hook. f., Fl. Brit. India 3: 301. 1881.
E Himalaya, NE India.

var. **nilagiricum** (C.B. Clarke) Sarv.Kumar in R.R. Rao et al., Fl. Ind. Enum. -Asterac. 22. 1988.
Carpesium cernuum var. *nilagiricum* C.B. Clarke, Compos. ind. 131. 1876; Hook. f., Fl. Brit. India 3: 301. 1881.
Nilgiris.

Carpesium pedunculosum Wall. ex DC., Prodr. 6: 11. (1837) 1838; N.C. Nair, Fl. Bashahr Himal. 147. 1977.
Carpesium cernuum var. *pedunculosum* (Wall. ex DC.) C.B. Clarke, Compos. ind. 1304. 1876; Hook. f., Fl. Brit. India 3: 301. 1881.
Carpesium nepalense var. *pedunculosum* (Wall. ex DC.) Sarv.Kumar in R.R. Rao et al., Fl. ind. enum. -Asterac. 22. 1988.
Himalayas.

Carpesium pubescens Wall. ex DC., Prodr. 4: 281. 1830; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1492. 2001.
Carpesium cernuum sensu Hook. f., Fl. Brit. India 3: 300. 1881 p.p. non L., 1753.
Himalayas.

Carpesium scapiforme F.H. Chen & C.M. Hu in Acta Phytotax. Sin. 12: 497. 1974; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1492. 2001.
Carpesium cernuum var. *glandulosum* Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 130. 1876; Hook. f., Fl. Brit. India 3: 301. 1881.
Himalayas, NE India.

Carpesium trachelifolium Less. in Linnaea 6: 233. 1831; Hook. f., Fl. Brit. India 3: 301. 1881.
Himalayas.

CARTHAMUS L., Sp. pl. 830. 1753.

Carthamus lanatus L., Sp. pl. 830. 1753; Hook. f., Fl. Brit. India 3: 386. 1881.
Sub Himalayan tracts, W Himalaya.

Carthamus oxyacantha M. Bieb., Fl. taur.-caucas. 2: 283. 1808; Hook. f., Fl. Brit. India 3: 386. 1881.
C to N India, Sub Himalayan tracts.

Carthamus tinctorius L., Sp. pl. 830. 1753; Hook. f., Fl. Brit. India 3: 386. 1881.
Cultivated; an occasional escape.

CATAMIXIS Thomson in J. Linn. Soc., Bot. 9: 342. 1867.

Catamixis baccharoides Thomson in J. Linn. Soc., Bot. 9: 343, t. 4. 1867; Hook. f., Fl. Brit. India 3: 389. 1881.
W Himalaya.

CAVEA W.W. Sm. & Small in Trans. & Proc. Bot. Soc. Edinburgh 27: 119. 1917.

Cavea tanguensis (J.R. Drumm.) W.W. Sm. & Small in Trans. & Proc. Bot. Soc. Edinburgh 27. 119. 1917.
Saussurea tanguensis J.R. Drumm. in Bull. Misc. Inform. 1910: 78. 1910.
E Himalaya.

CENTAUREA L., Sp. pl. 909. 1753.

Centaurea bruguieriana (DC.) Hand.-Mazz. in Ann. K.K. Naturhist. Hofmus. 27: 451. 1913; R.R. Rao et al., Fl. ind. enum. -Asterac. 22. 1988.
Tetramorphaea bruguieriana DC., Prodr. 6: 609. (1837) 1838.
Centaurea phyllocephala Boiss., Fl. orient. 3: 684. 1875; Hook. f., Fl. Brit. India 3: 385. 1881.
Punjab.

Centaurea calcitrapa L., Sp. pl. 917. 1753; Hook. f., Fl. Brit. India 3: 385. 1881.
Karnataka, NW Himalaya.

Centaurea cyanus L., Sp. pl. 911. 1753; Hook. f., Fl. Brit. India 3: 384. 1881.
Weed in cultivated fields & gardens.

Centaurea depressa M. Bieb., Fl. taur.-caucas. 2: 346. 1808; Hook. f., Fl. Brit. India 3: 385. 1881.
NW Himalaya.

Centaurea iberica Trevir. ex Spreng., Syst. veg. ed. 16. 3: 106. 1826; Hook. f., Fl. Brit. India 3: 385. 1881.
NW Himalaya.

Centaurea melitensis L., Sp. pl. 912. 1753; Hook. f., Fl. Brit. India 3: 385. 1881.
Cultivated.

Centaurea pulchra DC., Prodr. 6: 578. (1837) 1838; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 124. 1983.
NW Himalaya.

CENTIPEDA Lour., Fl. cochinch. 492. 1790.

Centipeda minima (L.) A. Braun & Asch. in Index Sem. (Berlin) 1867: App. 6. 1868; T.N. Srivast., Fl. gorakhpur. 173. 1976.
Artemisia minima L., Sp. pl. 849. 1753.

Centipeda orbicularis Lour., Fl. cochinch. 493. 1790; Hook. f., Fl. Brit. India 3: 317. 1881
Dichrocephala schmidtii Wight, Icon. pl. Ind. orient. t. 1610. 1850.
Throughout India including Andaman & Nicobar Islands.

CENTRATHERUM Cass. in Bull. Sci. Soc. Philom. Paris 1817: 31. 1817 & in F. Cuvier's Dict. sci. nat. ed. 2. 7: 383. 1817.

Centratherum punctatum Cass. in Bull. Sci. Soc. Philom. Paris 1817: 31. 1817; R.R. Rao et al., Fl. ind. enum. -Asterac. 23. 1988.
Introduced.

CEPHALORRHYNCHUS Boiss., Diagn. pl. orient. 1, 1(4): 28. 1844.

Cephalorrhynchus macrorhizus (Royle) Tuisl in Ann. Naturhist. Mus. Wien 72: 618. 1968; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1474. 2001.
Mulgedium macrorhizum Royle, Ill. bot. Himal. Mts. 251, t. 61, f. 1. 1835.
Melanoseris saxatilis Edgew. in Trans. Linn. Soc. London 20: 79. 1846.
Lactuca hoffmeisteri Klotzsch in Klotzsch & Garcke, Bot. Ergebn. Reise Waldemar 81. 1862.
Lactuca macrorhiza (Royle) Hook. f., Fl. Brit. India 3: 408. 1881.
Cicerbita macrorhiza (Royle) Beauverd in Bull. Soc. Bot. Genève 2: 120. 1910; Mamgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 272. 1995.
Cicerbita macrorhiza var. *saxatilis* (Edgew.) Beauverd in Bull. Soc. Bot. Genève 2: 135. 1910.
Himalayas, NE India.

CHAETOSERIS C. Shih in Acta Phytotax. Sin. 29(5): 398. 1991.

Chaetoseris cyanea (D. Don) C. Shih in Acta Phytotax. Sin. 29(5): 404. 1991.
Sonchus cyaneus D. Don, Prodr. fl. nepal. 164. 1825.
Lactuca hastata DC., Prodr. 7: 139. 1838; Hook. f., Fl. Brit. India 3: 407. 1881.
Cicerbita cyanea (D. Don) Beauverd in Bull. Soc. Bot. Genève 2: 132. 1910; H. Hara, Fl. E. Himal. 335. 1966.
var. **cyanea**.
Himalayas, E N NE & S India.

var. **khasiana** (C.B. Clarke) Karthik. & Moorthy comb. nov.
Lactuca hastata Wall. ex DC. var. *khasiana* C.B. Clarke, Compos. ind. 268. 1876.
Cicerbita cyanea var. *khasiana* (C.B. Clarke) Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
NE India.

var. **paniculata** (C.B. Clarke) Karthik. & Moorthy comb. nov.
Lactuca hastata var. *paniculata* C.B. Clarke, Compos. ind. 268. 1876.
Cicerbita cyanea var. *paniculata* (C.B. Clarke) Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
Himalayas, Nilgiris.

Chaetoseris macrantha (C.B. Clarke) C. Shih in Acta Phytotax. Sin. 29(5): 403. 1991.
Lactuca macrantha C.B.Clarke, Compos. ind. 267. 1876; Hook. f., Fl. Brit. India 3: 409. 1881.
Cicerbita macrantha (C.B. Clarke) Beauverd in Bull. Soc. Bot. Genève 2: 130 & 132. 1910; S.K. Mukerjee in Rec. Bot. Surv. India 20 (2): 126. 1973.
Himalayas.

CHONDRILLA L., Sp. pl. 796. 1753.

Chondrilla graminea M. Bieb., Fl. taur.-caucas. 2: 244. 1808; Hook. f., Fl. Brit. India 3: 402. 1881.
var. **graminea**.
NE Himalaya.

var. **kashmiriana** Hook. f., Fl. Brit. India 3: 402. 1881.
NW Himalaya.

Chondrilla pauciflora Ledeb., Fl. altaic. 4: 141. 1833; R.R. Rao et al., Fl. ind. enum. -Asterac. 23. 1988.
NW Himalaya.

Chondrilla setulosa C.B. Clarke ex Hook. f., Fl. Brit. India 3: 402. 1881.
NW Himalaya.

CHROMOLAENA DC., Prodr. 5: 133. 1836.

Chromolaena odorata (L.) R.M. King & H. Rob. in Phytologia 20: 204. 1970; L. Gaut. in Candollea 47: 648. 1992.
Eupatorium odoratum L., Syst. nat. ed. 10. 2: 1205. 1760; Hook. f., Fl. Brit. India 3: 244. 1881.
forma **odorata**.
Throughout India.

forma **squarrosa** (J. Kost.) S. Garg née S. Agrawal in J. Econ. Taxon. Bot. 14: 246. 1990.
Eupatorium odoratum forma *squarrosum* J. Kost. in Blumea 7: 290. 1952.
N to W India.

CHRYSANTHELLUM Rich. in Pers., Syn. pl. 2: 471. 1807.

Chrysanthellum americanum (L.) Vatke in Abh. Naturwiss. Vereine Bremen 9: 122. 1887; K.K. & S. Sharma, Fl. Rajasthan 111. 1989.
Anthemis americana L., Sp. pl. 895. 1753.
Chrysanthellum indicum DC., Prodr. 5: 631. 1836; Hook. f., Fl. Brit. India 3: 310. 1881.
Almost throughout India.

CHRYSANTHEMUM Rich. in Pers., Syn. pl. 2: 471. 1807.
Pyrethrum sect. Dendranthema DC., Prodr. 6: 62. (1837) 1838.
Dendranthema (DC.) Des Moul. in Actes Soc. Linn. Bordeaux 20: 561. 1860.
Note: Nicolson – in Taxon 47: 443. 1998 had reported that the Committee for Spermatophyta of International Botanical Congress has recommended to conserve *Chrysanthemum* as proposed by Trehane in Taxon 44: 439 – 441. 1995. Accordingly *Dendranthema* is reduced to synonymy and *Chrysanthemum* is accepted in this work.

Chrysanthemum carinatum Schousb., Iagttag. Vextrig. Marokko 198, t. 6. (1800) 1801; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 74. 1995.
Cultivated.

Chrysanthemum coccineum Willd., Sp. pl. 3: 2144. 1803; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 74. 1995.
Cultivated.

Chrysanthemum coronopifolium Vill., Fl. delphin. 98. 1786 & Hist. pl. Dauphiné 3: 202. 1788; R.R. Rao & Khark. in J. Bombay Nat. Hist. Soc. 75: 277. 1978.
Meghalaya.

Chrysanthemum daucifolium Pers., Syn. pl. 2: 462. 1807; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 123. 1983.
NW Himalaya.

Chrysanthemum foeniculaceum Steud., Nomencl. bot. ed. 1. 1: 192. 1821; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 75. 1995.
Cultivated.

Chrysanthemum frutescens L., Sp. pl. 887. 1753.
Cultivated.

Chrysanthemum indicum L., Sp. pl. 889. 1753; Khan, Forest fl. Hyderabad 208. 1953.
Dendranthema indicum (L.) Des Moul. in Actes Soc. Linn. Bordeaux 20: 562. 1855; Lauener in Notes Roy. Bot. Gard. Edinburgh 34: 352. 1975.
Cultivated.

Chrysanthemum morifolium Ramat. in J. Hist. Nat. 2: 240. 1792; H. Hara, Fl. E. Himal. 335. 1966.
Cultivated.

Chrysanthemum mutellinum (Hand.-Mazz.) Hand.-Mazz., Symb. sin. 7: 1112. 1936.
Tanacetum mutellinum Hand.-Mazz. in Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz. 61: 203. 1924, R.R. Rao et al., Fl. ind. enum.- Asterac. 76. 1988.
Tanacetum nubigenum sensu Hook. f., Fl. Brit. India 3: 318. 1881 p.p. non DC., (1837) 1838.
Dendranthema mutellina (Hand.-Mazz.) Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 24. 1982.
Himalayas.

Chrysanthemum myconis L., Sp. pl. ed. 2. 1254. 1763.
Cultivated.

Chrysanthemum parthenium (L.) Bernh., Syst. Verz. 145. 1800.
Cultivated.

Chrysanthemum pyrethroides (Kar. & Kir.) B. Fedtsch., Rastit. Turkestan 737. 1915; M.A. Rau, High alt. fl. pl. W. Himal. 130. 1975.
Richteria pyrethroides Kar. & Kir. in Bull. Soc. Imp. Naturalistes Moscou 15: 127. 1842.
Chrysanthemum richteria Benth. in Benth. & Hook. f., Gen. pl. 2: 426. 1873; Hook. f., Fl. Brit. India 3: 315. 1881.
W Himalaya.

Chrysanthemum sinense Sabine in Trans. Linn. Soc. London 14: 142. 1823; M.R. Almeida, Fl. Maharashtra 3A: 89. 2001.
Cultivated.

Chrysanthemum tenuiflorum (Jacquem. ex Besser) Karthik. & Moorthy comb. nov.
Artemisia tenuiflora Jacquem. ex Besser in Bull. Soc. Imp. Naturalistes Moscou 9: 62. 1836.
Tanacetum tenuifolium Jacquem. ex DC., Prodr. 6: 129. (1837) 1838; Hook. f., Fl. Brit. India 3: 319. 1881.
Dendranthema tenuiflorum (Jacquem. ex Besser) Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 24. 1982.
C to W Himalaya.

CICERBITA Wallr., Sched. crit. 433. 1822.

Cicerbita crambifolia (Bunge) Beauverd in Bull. Soc. Bot. Genève, ser. 2, 2: 143. 1910; Mamgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 267. 1995.
Steptorhamphus crambifolius Bunge in Mém. Sav. Étr. Acad. St. Pétersbourg 7: 381. 1852 & Beitr. Fl. Russl. 205. 1852.
Lactuca crambifolia (Bunge) Boiss., Fl. orient. 3: 806. 1875; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 758. 1972.
NW Himalaya.

Cicerbita filicina (Duthie ex Stebbins) Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
Lactuca filicina Duthie ex Stebbins in Indian Forest Rec., Bot. 1 (6): 241. 1939.
W Himalaya.

Cicerbita nepalensis Kitam. in Acta Phytotax. Geobot. 30: 127. 1979; Kitam. & S. Gould in Fl. Hara et al., Enum. fl. pl. Nepal 3: 19. 1982.
C Himalaya.

Cicerbita violaefolia (Decne.) Beauverd in Bull. Soc. Bot. Genève 2: 122. 1910.
Prenanthes violaefolia Decne. in Jacquem., Voy. Inde 4: 100, t. 108. 1844; Hook. f., Fl. Brit. India 3: 412. 1881.
Lactuca violaefolia (Decne.) C.B. Clarke, Compos. ind. 269. 1876.
Himalayas, NE India.
Note: U. Dhar & Kachroo, Alp. Fl. Kashmir Himal. 126. 1983 mentioned this species as *Lactuca vitifolia* (Decne.) C.B. Clarke, erroneously.
Alpine Kashmir Himalaya.

CICHORIUM L., Sp. pl. 813. 1753.

Cichorium endivia L., Sp. pl. 813. 1753; Raizada & H.O. Saxena, Fl. Mussoorie 1: 392. 1978.
Weed in cultivated fields.

Cichorium intybus L., Sp. pl. 813. 1753; Hook. f., Fl. Brit. India 3: 391. 1881.
Cultivated or escape.

CIRSIUM Mill., Gard. dict. ed. 4. 1754.
BREEA Less., Syn. gen. Compos. 9. 1832.

Cirsium argyracanthum DC., Prodr. 6: 640. (1837) 1838; S.K. Mukerjee in Rec. Bot. Surv. India 20 (2): 126. 1973.
Cnicus argyracanthus (DC.) C.B. Clarke, Compos. ind. 218. 1876.
Himalayas.

Cirsium arvense (L.) Scop., Fl. carniol. ed. 2. 2: 126. 1772; Kachroo et al., Fl. Ladakh 97. 1977.
Serratula arvensis L., Sp. pl. 465. 1753.
Cnicus arvensis (L.) Roth, Catal. bot. 1: 115. 1797; Hook. f., Fl. Brit. India 3: 362. 1881.
Breea arvensis (L.) Less., Syn. gen. Compos. 10. 1832; R.R. Rao et al., Fl. ind. enum. -Asterac. 20. 1988.
E N & NW India.

Cirsium chinense Gardner & Champ. in Hooker's J. Bot. Kew Gard. Misc. 1: 323. 1849; Kanjilal et al., Fl. Assam 3: 125. 1939.
NE India.

Cirsium eriophoroides (Hook.f.) Petr. in Biblioth. Bot. 78: 9. 1912 in obs.; Lauener in Notes Roy. Bot. Gard. Edinburgh 34: 373. 1975.
Cnicus eriophoroides Hook. f., Fl. Brit. India 3: 363. 1881.
E Himalaya.

Cirsium falconeri (Hook.f.) Petr. in Repert. Spec. Nov. Regni Veg. 9: 198. 1911; M.A. Rau, High alt. fl. pl. W. Himal. 130. 1975.
Cnicus falconeri Hook. f., Fl. Brit. India 3: 363. 1881.
Cnicus involucratus Hook. f., Fl. Brit. India 3: 362. 1881 quoad descr. excl. basionym.
var. **falconeri**.
Himalayas.

var. **horrida** (Hook. f.) Bennet, Name ch. fl. pl. India & adj. regions 127. 1987.
Cnicus involucratus var. *horrida* Hook. f., Fl. Brit. India 3: 362. 1881.
Cirsium involucratum var. *horridum* (Hook. f.) N.P. Balakr. in Bull. Bot. Surv. India 22: 175. (1980) 1982.
Himalayas, NE India.

Cirsium flavisquamatum Kitam. in Acta Phytotax. Geobot. 26: 16. 1974.
C. Himalaya.

Cirsium interpositum Petr. in Repert. Spec. Nov. Regni Veg. 43: 283. 1938; Hajra in Hajra et al. (Eds.), Fl. India 12: 170. 1995.
Cnicus griffithii Hook. f., Fl. Brit. India 3: 363. 1881 non *Cirsium griffithii* Boiss., 1875.
E Himalaya, NE India.

Cirsium involucratum DC., Prodr. 6: 639. (1837) 1838; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 377. 1984.
Cnicus involucratus DC., Prodr. 6: 607. (1837) 1838; Hook. f., Fl. Brit. India 3: 362. 1881.
Himalayas, NE India.

Cirsium niehiokae Kitam. in Acta Phytotax. Geobot. 23: 75. 1968.
C to E Himalaya.

Cirsium phulchokiense Kitam. in Acta Phytotax. Geobot. 26: 16. 1974.
C Himalaya.

Cirsium shansiense Petr. in Mitth. Thüring. Bot. Vereins 1: 176. 1943; Hajra in Hajra et al. (Eds.), Fl. India 12: 170. 1995.
Cnicus sinensis C.B. Clarke, Compos. ind. 219. 1876; Hook. f., Fl. Brit. India 3: 364. 1881.
NE India, NW Himalaya.

Cirsium souliei (Franch.) Matff. in J. Arnold Arbor. 14: 42. 1933; Grierson & Spring, in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1428. 2001.
Cnicus souliei Franch. in J. Bot. (Morot) 11: 21. 1897.
E Himalaya.

Cirsium tibeticum Kitam. in Acta Phytotax. Geobot. 15: 43. 1953; Kitam. & S. Gould in H. Hara et al., Enum. fl. pl. Nepal 3: 20. 1982.
C to E Himalaya.

Cirsium verutum (D. Don) Spreng., Syst. veg. ed. 16. 3: 370. 1626; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 124. 1983.
Cnicus verutus D. Don, Prodr. fl. nepal. 167. 1825.
Cirsium argyracanthum sensu Hook. f., Fl. Brit. India 3: 362. 1881, p.p. non (DC.) C. B. Clarke, 1876.
Himalayas, NE India.

Cirsium wallichii DC., Prodr. 6: 643. (1837) 1838; Maheshw., Fl. Delhi 201. 1963.
Cnicus wallichii (DC.) C.B. Clarke, Compos. ind. 219. 1876; Hook. f., Fl. Brit. India 3: 363. 1881.
var. **wallichii.**
Nilgiris, Temperate Himalayas, Upper Gangetic Plains.

var. **cernua** (Hook. f.) Karthik. & Moorthy comb. nov.
Cnicus wallichii var. *cernua* Hook. f., Fl. Brit. India 3: 364. 1881.
Himalayas.

var. **fasciculata** (Hook. f.) Babu, Herb. fl. Dehra Dun 254. 1977.
Cnicus wallichii var. *fasciculata* Hook. f., Fl. Brit. India. 3: 364. 1881.
Kerala, sub Himalayan tracts, Upper Gangetic Plains.

var. **glabrata** (Hook. f.) Wendelbo in Nytt Mag. Bot. 1: 67. 1952; H. Hara, Fl. E. Himal. 336. 1966.
Cnicus wallichii var. *glabrata* Hook. f., Fl. Brit. India 3: 364. 1881.
Himalayas.

var. **nepalensis** (DC.) Karthik. & Moorthy comb. nov.
Cirsium nepalense DC., Prodr. 6: 642. (1837) 1838.
Cnicus wallichii var. *nepalensis* (DC.) Hook. f., Fl. Brit. India 3: 364. 1881.
W Himalaya.

var. **platylepis** (Hook. f.) Aswal & Mehrotra in J. Econ. Taxon. Bot. 1: 117. 1980.
Cnicus wallichii var. *platylepis* Hook. f., Fl. Brit. India 3: 364. 1881.
NW Himalaya.

var. **wightii** (Hook. f.) Vivek. apud B.D. Sharma et al. in Biol. Mem. 2: 77. 1977.
Cnicus wallichii var. *wightii* Hook. f., Fl. Brit. India 3: 364. 1881.
Himalayas, Nilgiris.

CISSAMPELOPSIS (DC.) Miq., Fl. Ned. Ind. 2: 102. 1856.
Cacalia L. sect. Cissampelopsis DC., Prodr. 6: 331. (1837) 1838.

Cissampelopsis anstaedi (Tadul. & K.C. Jacob) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 241. 1984.
Senecio anstaedi Tadul. & K.C. Jacob in J. Indian Bot. Soc. 9: 40. 1930.
SW Ghats (Tamilnadu).

Cissampelopsis buimalia (Buch.-Ham. ex D. Don) C. Jeffrey & Y.L. Chen ex C. Jeffrey in Kew Bull. 41: 937. 1986.
Senecio buimalia Buch.-Ham. ex D. Don, Prodr. fl. nepal. 178. 1825; Hook. f., Fl. Brit. India 3: 352. 1881.
C & E Himalaya, NE India.

Cissampelopsis calcadensis (Ramaswami) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 341. 1984.
Senecio calcadensis Ramaswami in Rec. Bot. Surv. India 6: 138. 1914.
SW Ghats (Tamilnadu).

Cissampelopsis corifolia C. Jeffrey & Y.L. Chen in Kew Bull. 39: 342, f. 1. 1984.
E Himalaya, NE India.

Cissampelopsis corymbosa (Wall. ex DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 341. 1984.
Senecio corymbosus Wall. ex DC. in Wight, Contr. bot. India 22. 1834; Hook. f., Fl. Brit. India 3: 351. 1881.
SW Ghats.

Cissampelopsis vivekananthanii Gopalan & Chithra in J. Econ. Taxon. Bot. 32: 599, f. 1. 2008.
Tamilnadu.

Cissampelopsis volubilis (Blume) Miq., Fl. Ned. Ind. 2: 103. 1856; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 344. 1984.
Cacalia? volubilis Blume, Bijdr. 908. 1826.
Senecio araneosus DC., Prodr. 6: 364. (1837) 1838; Hook. f., Fl. Brit. India 3: 351. 1881.
E Himalaya, NE India.

Cissampelopsis walkeri (Arn.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 341. 1984.
Senecio walkeri Arn. in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18: 349. 1831.
Senecio araneosus var. *walkeri* (Arn.) C.B. Clarke, Compos. ind. 182. 1876.
Senecio araneosus sensu Hook. f., Fl. Brit. India 3: 351. 1881, p.p. non DC., (1837) 1838.
Senecio corymbosus Wall. ex DC. var. *walkeri* (Arn.) Grierson in Ceylon J. Sci., Biol. Sci. 11: 22. 1974.
SW Ghats (Kerala, Tamilnadu).

CONYZA Less., Syn. gen. Compos. 203. 1832, nom. cons.

Conyza aegyptiaca (L.) Aiton, Hort. kew. ed. 1. 3: 183. 1789; Hook. f., Fl. Brit. India 3: 258. 1881.
Erigeron aegyptiacus L., Mant. pl. 1: 112. 1767.
Tropical & subtropical India.

Conyza bonariensis (L.) Cronquist in Bull. Torrey Bot. Club 70: 623. 1943; Grierson in Dassan. & Fosberg (Eds.), Rev. handb. fl. Ceylon 1: 158. 1980.
Erigeron bonariensis L., Sp. pl. 863. 1753.
Erigeron crispus Pourr. in Hist. & Mém. Acad. Roy. Sci. Toulouse 3: 318. 1788 p.p.
Erigeron linifolius Willd., Sp. pl. 3: 1955. 1803; Hook. f., Fl. Brit. India 3: 254. 1881.
Conyza ambigua DC., Fl. franç. 6: 468. 1815.
Erigeron ambiguus (DC.) Sch.Bip. in Webb & Berthel., Hist. nat. Iles Canaries sect. 3(2): 208. (1836) 1845 non Nutt., 1818.
Conyza angustifolia Buch.-Ham. ex Roxb., Fl. ind. (Ed. Carey) 3: 429. 1832; Hook. f., Fl. Brit. India 3: 258. 1881.
Almost throughout India.

Conyza canadensis (L.) Cronquist in Bull. Torrey Bot. Club 70: 632. 1943; T.A. Rao in Rec. Bot. Surv. India 18 (2): 36. 1961.
Erigeron canadensis L., Sp. pl. 863. 1753.
Throughout India.

Conyza japonica (Thunb.) Less. ex DC., Prodr. 5: 382. 1836; Hook. f., Fl. Brit. India 3: 258. 1881.
Erigeron japonicum Thunb., Fl. jap. 312. 1784.
Eschenbachia japonica (Thunb.) J. Kost. in Blumea 7: 290. 1952.
Throughout India.

Conyza leucantha (D. Don) Ludlow & P.H. Raven in Kew Bull. 17: 71. 1963; H. Hara, Fl. E. Himal. 337. 1966.
Erigeron leucanthum D. Don, Prodr. fl. nepal. 171. 1825.
Conyza viscidula Wall. ex DC., Prodr. 5: 383. 1836; Hook. f., Fl. Brit. India 3: 258. 1881.
Blumea leucantherna DC., Prodr. 5: 436. 1836; Hook. f., Fl. Brit. India 3: 270. 1881.
Blumeopsis falcata (D. Don) Merr. in J. Arnold Arbor. 19: 70. 1938.
Eschenbachia viscidula (Wall. ex DC.) J. Kost. in Blumea 7: 290. 1952.
Throughout India.

Conyza rufa Wall. ex DC., Prodr. 5: 384. 1836; Hook. f., Fl. Brit. India 3: 259. 1881.
N & NW India, Tamilnadu, Upper Gangetic Plains, W Himalaya.

Conyza semipinnatifida Wall. ex DC., Prodr. 5: 382. 1836; Hook. f., Fl. Brit. India 3: 257. 1881.
C E & NE India, E Himalaya.

Conyza stricta Willd., Sp. pl. 3: 1922. 1803; Hook. f., Fl. Brit. India 3: 258. 1881.
Conyza adenocarpa Dalzell & A. Gibson, Bombay fl. 125. 1861; Hook. f., Fl. Brit. India 3: 259. 1881.
Eschenbachia stricta (Willd.) Raizada in Indian Forester 84: 467. 1959.
var. **stricta**.
Throughout India.

var. **pinnatifida** Kitam. in H. Hara, Fl. E. Himal. 337. 1966.
Erigeron pinnatifidum D. Don, Prodr. fl. nepal. 172. 1825, non Thunb., 1800.
Erigeron trisulcum D. Don, Prodr. fl. nepal. 172. 1825.
Conyza pinnatifida Roxb., Fl. ind. (Ed. Carey) 3: 430. 1832, non Less., 1832.
Conyza stricta sensu Hook. f., Fl. Brit. India 3: 258. 1881, p.p. non Willd., 1803.
E Himalaya.

Conyza sumatrensis (Retz.) E. Walker in J. Jap. Bot. 46: 72. 1971; R.R. Rao et al., Fl. ind. enum. -Asterac. 28. 1988.
Erigeron sumatrensis Retz., Observ. bot. 5: 28. 1787.
Conyza floribunda Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 57 & (ed. quarto) 73. 1820; S. Garg née S. Agrawal & T.C.S. Sastry in J. Econ. Taxon. Bot. 12: 436. 1988.
Erigeron floribundus (Kunth) Sch.Bip. in Bull. Soc. Bot. France 12: 81. 1865.
Erigeron crispus Pourr. in Hist. & Mém. Acad. Roy. Sci. Toulouse 3: 318. 1788.
Weed.

COREOPSIS L., Sp. pl. 907. 1753.

Coreopsis aristosa Michx., Fl. bor.-amer. 2: 140. 1803; M.R. Almeida, Fl. Maharashtra 3A: 92. 2001.
Cultivated.

Coreopsis atkinsoniana Douglas in Edwards' Bot. Reg. (Ed. Lindl.) 16: t. 1376. 1830; Deb, Fl. Tripura 2: 211. 1983.
Calliopsis atkinsoniana (Douglas) Hook., Fl. bor.-amer. 1: 310. 1833.
Cultivated.

Coreopsis tinctoria Nutt. in J. Acad. Nat. Sci. Philadelphia 2: 114. 1821; G.L. Shah, Fl. Gujarat 377. 1978.
var. tinctoria.
Cultivated.

var. atropurpurea Hook. in Curtis, Bot. Mag. (Ed. Hook.) 63: t. 3511. 1836; M. Sharma & H. Kaur in J. Econ. Taxon. Bot. 18: 726. 1994.
Cultivated.

COSMOS Cav., Icon. 1: 9. 1791.

Cosmos bipinnatus Cav., Icon. 1: 10, t. 14. 1791; R.K. Gupta, Fl. nainital. 205. 1968.
Cultivated.

Cosmos caudatus Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 188 & (ed. quarto) 240. 1820; Haines, Bot. Bihar Orissa 2: 508. 1961 (Repr.).
Garden escape.

Cosmos steenisiae Veldkamp in Blumea 35: 479. 1991.
Cosmos calvus non Sherff in Publ. Field Columbian Mus., Bot. Ser. 8: 405. 1932; R.R. Rao et al., Fl. ind. enum. -Asterac. 28. 1988.
Garden escape.

COTULA L., Sp. pl. 891. 1753.
Cenia Comm. ex Juss., Gen. pl. 183. 1789.

Cotula anthemoides L., Sp. pl. 891. 1753; Hook. f., Fl. Brit. India 3: 316. 1881.
C E & N India, Gangetic plains, Himalayas.

Cotula aurea Loefl., Iter hispan. 163. 1758; Hook. f., Fl. Brit. India 3: 316. 1881.
N India, NW Himalaya.

Cotula australis (Sieber ex Spreng.) Hook. f., Fl. nov.-zel. 1: 128. 1852; Gamble, Fl. Madras 2: 501. 1967 (Repr.).
Anacyclus australis Sieber ex Spreng., Syst. veg. ed. 16. 3: 497. 1826.
Introduced.

Cotula coronopifolia L., Sp. pl. 892. 1753; R.R. Rao et al., Fl. ind. enum. -Asterac. 29. 1988.
Introduced.

Cotula hemisphaerica (Roxb.) Wall. ex C.B. Clarke, Compos. ind. 150. 1876; Hook. f., Fl. Brit. India 3: 316. 1881.
Artemisia hemisphaerica Roxb., Fl. ind. (Ed. Carey) 3: 422. 1832.
E, N & NE India through Upper Gangetic Plains & sub Himalayan tracts.

Cotula turbinata L., Sp. pl. 892. 1753.
Cenia turbinata (L.) Pers., Syn. pl. 2: 463. 1807; Hook. f., Fl. Brit. India 3: 316. 1881.
Cultivated.

COUSINIA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 47: 503. 1827.

Cousinia auriculata Boiss., Diagn. pl. orient. ser. 2, 3: 58. 1856; Hook. f., Fl. Brit. India 3: 360. 1881.
NW Himalaya, Trans Indus Plains.

Cousinia calcitrapella Bornm. in Notizbl. Bot. Gart. Berlin-Dahlem 15: 118. 1940.
Punjab.

Cousinia falconeri Hook. f., Fl. Brit. India 3: 360. 1881.
NW Himalaya.

Cousinia kerstanii Bornm. in Repert. Spec. Nov. Regni Veg. Beih. 108: 49. 1938.
NW Himalaya.

Cousinia mattfeldii Bornm. in Repert. Spec. Nov. Regni Veg. Beih. 108: 38. 1938.
NW Himalaya.

Cousinia microcarpa Boiss., Diagn. pl. orient. ser. 2, 3: 59. 1856; Hook. f., Fl. Brit. India 3: 360. 1881.
NW Himalaya.

Cousinia prolifera Jaub. & Spach, Ill. pl. orient. 2: 75, t. 157. 1845; Hajra in Hajra et al. (Eds.), Fl. India 12: 175. 1995.
Cousinia minuta Boiss., Diagn. pl. orient. ser. 1, 1(6): 117 (1845) 1846; Hook. f., Fl. Brit. India 3: 359. 1881.
N & NW India, NW Himalaya.

Cousinia scheibeana Bornm. in Repert. Spec. Nov. Regni Veg. Beih. 108: 43. 1938.
NW Himalaya.

Cousinia thomsonii C.B. Clarke, Compos. ind. 213. 1876; Hook. f., Fl. Brit. India 3: 360. 1881.
C to W Himalaya.

CRASSOCEPHALUM Moench, Methodus 316. 1794.

Crassocephalum crepidioides (Benth.) S. Moore in J. Bot. 50: 211. 1912; C. Jeffrey in Kew Bull. 41: 908. 1986.
Gynura crepidioides Benth. in Hook., Niger Fl. 437. 1849.
Erechtites valerianaefolia sensu C.E.C. Fisch. in Gamble, Fl. Madras 1882. 1936 (3: 1302. 1967, Repr.) non (Wolf) DC., (1837) 1838.
Naturalised almost throughout tropical India.

CREMANTHODIUM Benth. in Hooker's Icon. Pl. ser. 3, 12: 37. 1876.

Cremanthodium arnicoides (DC. ex Royle) R.D. Good in J. Linn. Soc., Bot. 48: 288. 1929; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 123. 1983.
Ligularia arnicoides DC. ex Royle, Ill. Bot. Himal. Mts. 251, t. 60, f.2. 1835 & in DC., Prodr. 6: 314. (1837) 1838.
Senecio arnicoides Wall. ex C.B. Clarke, Compos. ind. 207. 1876; Hook. f., Fl. Brit. India 3: 351. 1881 non Hook. & Arn., 1841.
Senecio connatus N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 61. 1970.
Himalayas.

Cremanthodium bhutanicum Ludlow in Bull. Brit. Mus. (Nat. Hist.), Bot. 5 (5): 278. 1976.
E Himalaya, NE India.

Cremanthodium cremanthodioides (Hand.-Mazz.) R.D. Good in J. Linn. Soc., Bot. 48: 279. 1929; R.R. Rao et al., Fl. ind. enum.- Asterac. 30. 1988.
Ligularia cremanthodioides Hand.-Mazz. in Akad. Wiss. Wien, Math.-Naturwiss. Kl., Anz. 62: 13. 1925.
E Himalaya.

Cremanthodium decaisnei C.B. Clarke, Compos. Ind. 168. 1876; Hook. f., Fl. Brit. India 3: 331. 1881.
forma **decaisnei.**
Alpine Himalayas.

forma **clarkei** R.D. Good in J. Linn. Soc., Bot. 48: 275. 1929; R.R. Rao et al., Fl. ind. enum. -Asterac. 30. 1988.
E Himalaya.

Cremanthodium discoideum Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg 27: 483. 1882; R.R. Rao et al., Fl. ind. enum. -Asterac. 30. 1988.
Cremanthodium cucullíferum W.W. Sm. in Rec. Bot. Surv. India 4: 209. 1911.
E Himalaya.

Cremanthodium ellisii (Hook. f.) Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 22. 1982.
Werneria ellisii Hook. f., Fl. Brit. India 3: 357. 1881.
Senecio arnicoides var. *frigida* Hook. f., Fl. Brit. India 3: 351. 1881.
Cremanthodium plantagineum Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg 27: 481. 1881.
Cremanthodium plantagineum forma *maximowiczii* R.D. Good in J. Linn. Soc., Bot. 48: 293. 1929.
Cremanthodium plantagineum forma *ellisii* (Hook. f.) R.D. Good in J. Linn. Soc., Bot. 48: 293. 1929.
Senecio kunawarensis N.C. Nair, Fl. Bashahr Himal. 164. 1977.
C to W Himalaya.

Cremanthodium humile Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg 27: 481. 1881; C.E.C. Fisch. in Bull. Misc. Inform. 1940: 159. 1941.
E Himalaya ?

Cremanthodium nanum (Decne.) W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 14: 118. 1924; M.A. Rau, High alt. fl. pl. W. Himal. 131. 1975.
Ligularia nana Decne. in Jacquem., Voy. Inde 4: 91, t. 99. 1844.
Werneria nana (Decne.) Benth. in Benth & Hook. f., Gen. pl. 2: 451. 1873; Hook. f., Fl. Brit. India 3: 357. 1881.
C to W Himalaya.

Cremanthodium nepalense Kitam. in Acta Phytotax. Geobot. 15: 105. 1954.
C Himalaya.

Cremanthodium oblongatum C.B. Clarke, Compos. ind. 168. 1876; Hook. f., Fl. Brit. India 3: 331. 1881.
Cremanthodium nakaoi Kitam. in Acta Phytotax. Geobot. 15: 105. 1954.
C to E Himalaya.

Cremanthodium palmatum Benth. in Hooker's Icon. Pl. ser. 3, 12: 38, t. 1142. 1876; Hook. f., Fl. Brit. India 3: 331. 1881.
Cremanthodium palmatum ssp. *benthamii* R.D. Good in J. Linn. Soc., Bot. 48: 271. 1929; R.R. Rao et al., Fl. ind. enum. -Asterac. 30. 1988.
ssp. **palmatum** .
E Himalaya.

ssp. **rhodocephalum** (Diels) R.D. Good in J. Linn. Soc., Bot. 48: 271. 1929.
Cremanthodium rhodocephalum Diels in Notes Roy. Bot. Gard. Edinburgh 5: 190. 1912; C.E.C. Fisch. in Bull. Misc. Inform. 1934: 92. 1934.
NE India.

Cremanthodium pinnatifidum Benth. in Hooker's Icon. Pl. ser. 3, 12: 39, t. 1142. 1876; Hook. f., Fl. Brit. India 3: 332. 1881.
Senecio himalayensis Franch. in Bull. Soc. Bot. France 39: 287. 1892.
C & E Himalaya.

Cremanthodium pseudo-oblongatum R.D. Good in J. Linn. Soc., Bot. 48: 299. 1929.
E Himalaya.

Cremanthodium purpureifolium Kitam. in Acta Phytotax. Geobot. 15: 106. 1954.
C Himalaya.

Cremanthodium reniforme (DC.) Benth. in Hooker's Icon. Pl. ser. 3, 12: t. 1141. 1876; Hook. f., Fl. Brit. India 3: 330. 1881.
Ligularia reniformis DC., Prodr. 6: 315. (1837) 1838.
Himalayas, NE India.

Cremanthodium thomsonii C.B. Clarke, Compos. ind. 169. 1876; Hook. f., Fl. Brit. India 3: 331. 1881.
E Himalaya, NE India.

CREPIS L., Sp. pl. 805. 1753.

Crepis atropappa Babc. in Univ. Calif. Publ. Bot. 14: 324. 1928.
Himalayas.

Crepis capillaris (L.) Wallr. in Linnaea 14: 657. 1841; P.S. Kaushal & C. Jeffrey in Kew Bull. 42: 429. 1987.
Lapsana capillaris L., Sp. pl. 812. 1753.
W Himalaya.

Crepis dachigamensis G. Singh in G. Singh & Kachroo, Forest fl. Srinagar 127. 1976.
NW Himalaya.

Crepis flexuosa (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 515. 1873; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 224. 1983.
Barkhausia flexuosa DC., Prodr. 7: 155. 1838.
Youngia glauca Edgew. in Trans. Linn. Soc., London 20: 79. 1846
Crepis glauca (Edgew.) Benth. in Benth. & Hook f., Gen. pl. 2: 515. 1873; Hook. f., Fl. Brit. India 3: 394. 1881.
W Himalaya.

Crepis himalaica Kitam. in Acta Phytotax. Geobot. 15: 106. 1954; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 24. 1982.
C Himalaya.

Crepis kashmirica Babc. in Univ. Calif. Publ. Bot. 14: 328. 1928.
Crepis blattarioides sensu Hook. f., Fl. Brit. India 3: 394. 1881 non Vill., 1788.
NW Himalaya.

Crepis multicaulis Ledeb., Fl. altaic. 4: 125. 1833; M.A. Rau, High alt. fl. pl. W. Himal. 131. 1975.
Crepis stoliczkai C.B. Clarke, Compos. ind. 255. 1876; Hook. f., Fl. Brit. India 3: 396. 1881.
ssp. **multicaulis.**
W Himalaya.

ssp. **congesta** (Regel) Babc. in Univ. Calif. Publ. Bot. 19: 401. 1941; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 224. 1983.
Crepis multicaulis var. *congesta* Regel in Bull. Soc. Imp. Naturalistes Moscou 40: 178. 1867.
W Himalaya.

ssp. **genuina** (Regel) Babc. in Univ. Calif. Publ. Bot. 19: 401. 1941.
Crepis genuina Regel in Izv. Imp. Obšč. Ljubit. Estestv. Moskovsk. Univ. 34 (2). 1882.
W Himalaya.

Crepis naniformа Babc. in Univ. Calif. Publ. Bot. 22: 536. 1947; M.A. Rau, High alt. fl. pl. W. Himal. 131. 1975.
NW India, W Himalaya.

Crepis pulchra L., Sp. pl. 806. 1753; Mamgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 231. 1995.
Phaecasium lampsanoides Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 39: 387. 1841; Hook. f., Fl. Brit. India 3: 398. 1881.
ssp. **pulchra.**
W Himalaya.

ssp. **turkestanica** Babc. in Univ. Calif. Publ. Bot. 19: 402. 1941.
W Himalaya.

Crepis sancta (L.) Babc. in Univ. Calif. Publ. Bot. 19: 403. 1941; P.S. Kaushal & C. Jeffrey in Kew Bull. 42: 429. 1987.
Hieracium sanctum L., Cent. pl. II. 2: 30. 1756.
Pterotheca falconeri Hook. f., Fl. Brit. India 3: 399. 1881.
Trichocrepis bifida Vis., Stirp. dalmat. spec. 18, t.19. 1826.
Lagoseris sancta (L.) K. Malý ssp. *bifida* (Vis.) Thell. in Mem. Soc. Nat. Sci. Nat. Math IV, 28: 577. 1911-12.
Crepis sancta (L.) Babc. ssp. *bifida* (Vis.) Babc. in Univ. Calif. Publ. Bot. 22: 736. 1947.
W Himalaya.

Crepis thomsonii Babc. in. J. Bot. 76: 208. 1938; Raizada & H.O. Saxena, Fl. Mussoorie 1: 394. 1978.
Crepis foetida sensu Hook. f., Fl. Brit. India 3: 393. 1881, non L., 1753.
W Himalaya.

Crepis tibetica Babc. in Univ. Calif. Publ. Bot. 14: 330. 1928; G. Miehe in Bull. Brit. Mus. (Nat. Hist.), Bot. 16 (3): 241. 1987.
C & E Himalaya.

CRUPINA (Pers.) DC. in Ann. Mus. Natl. Hist. Nat. 16: 157. 1810.
CENTAUREA sect. CRUPINA Pers., Syn. pl. 2: 488. 1807.

Crupina vulgaris Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 12: 68. 1818; M.K. Kaul in Bull. Bot. Surv. India 18: 224. (1976) 1979.
Kashmir Himalaya.

CYANTHILLIUM Blume, Bijdr. 889. 1826.

Cyanthillium cinereum (L.) H. Rob. in Proc. Biol. Soc. Wash. 103: 252. 1990.
Conyza cinerea L., Sp. pl. 862. 1753.
Vernonia cinerea (L.) Less. in Linnaea 4: 291. 1829; Hook. f., Fl. Brit. India 3: 233. 1881.
var. **cinereum**.
Throughout India.

var. **glabriusculum** (DC.) Karthik. & Moorthy comb. nov.
Vernonia cinerea var. *glabriuscula* DC., Prodr. 5: 24. 1836; R.R. Rao et al., Fl. ind. enum.- Asterac. 87. 1988.
Tamilnadu.

var. **linifolium** (Blume) Karthik. & Moorthy comb. nov.
Vernonia linifolia Blume, Bijdr. 893. 1826.
Vernonia cinerea var. *linifolia* (Blume) J. Kost. in Blumea 1: 414. 1935; N.P. Balakr., Fl. Jowai 1: 271. 1981.
Assam.

var. **ludens** (C.B. Clarke) Karthik. & Moorthy comb. nov.
Vernonia cinerea var. *ludens* C.B. Clarke, Compos. ind. 21. 1876; Uniyal in Hajra et al. (Eds.), Fl. India 13: 368. 1995.
Assam.

var. **montanum** (Edgew.) Karthik. & Moorthy comb. nov.
Vernonia montana Edgew. in Trans. Linn. Soc., London 20: 62. 1846.
Vernonia cinerea var. *montana* (Edgew.) C.B. Clarke, Compos. ind. 21. 1876; N.P. Balakr., Fl. Jowai 1: 271. 1981.
Vernonia cinerea sensu Hook. f., Fl. Brit. India 3: 233. 1881 p.p. non Less., 1829.
NE India.

var. **parviflorum** (Reinw.) Karthik. & Moorthy comb. nov.
Vernonia parviflora Reinw. in Blume, Bijdr. 893. 1826.
Vernonia cinerea var. *parviflora* (Reinw.) DC., Prodr. 5: 24. 1836; H. Hara, Fl. E. Himal. 346. 1966.
E Himalaya, Lakshadweep (Laccadives), NE & S India.

Cyanthillium hookerianum (Arn.) H. Rob. in Proc. Biol. Soc. Wash. 112: 229. 1999; Murugan et al. in Indian J. Forest. 31: 449. 2008.
Vernonia hookeriana Arn. in Nova Acta Phys. - Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18: 346. (1836) 1838; C.B. Clarke in Hook.f., Fl. Brit. India 3: 235. 1881.
SW Chats (Nilgiris).

Cyanthillium patulum (Dryand.) H. Rob. in Proc. Biol. Soc. Wash. 103: 252. 1990.
Conyza patula Dryand. in Hort. kew. 3: 184. 1789.
Vernonia chinensis Less. in Linnaea 4: 674. 1829; Hook. f., Fl. Brit. India 3: 235. 1881; B. Mitra & G.S. Giri in J. Bombay Nat. Hist. Soc. 77: 168. (1980) 1981.
Vernonia patula (Dryand.) Merr. in Philipp. J. Sci. 3: 493. 1908; Anon., N Andaman biosph. res. proj. doc. 13: 1989.
Andaman Islands.

CYATHOCLINE Cass. in Ann. Sci. Nat. (Paris) 17: 419. 1829.

Cyathocline lutea Law ex Wight, Icon. pl. Ind. orient. t. 1150. 1846 & in Calcutta J. Nat. Hist. 7: 158, t. 2, f. 1. 1847; Hook. f., Fl. Brit. India 3: 246. 1881.
Peninsular India.

Cyathocline purpurea (D. Don) Kuntze, Revis. gen. pl. 1: 333. 1891; Santapau, Fl. Purandhar 65. 1958.
Tanacetum purpureum D. Don, Prodr. fl. nepal. 181. 1825.
Cyathocline lyrata Cass. in Ann. Sci. Nat. (Paris) 17: 420. 1829; Wight, Icon. pl. Ind. orient. t. 1098. 1846; Hook. f., Fl. Brit. India 3: 246. 1881.
Dichrocephala minutifolia Vaniot in Bull. Acad. Int. Géogr. Bot. 12: 243. 1903.
var. **purpurea.**
Throughout India.

var. **alba** Santapau in Kew Bull. 1948: 490. 1949 & Fl. Purandhar 65. 1958.
NW Ghats (Maharashtra).

var. **bicolor** Santapau in Kew Bull. 1948: 490. 1949.
NW Ghats (Maharashtra).

CYNARA L., Sp. pl. 827. 1753.

Cynara cardunculus L., Sp. pl. 827. 1753.
Cultivated.

Cynara scolymus L., Sp. pl. 827. 1753; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 382. 1984.
Cultivated.

DAHLIA Cav., Icon. 1: 56. 1791.

Dahlia imperialis Roezl ex Ortgies in Gartenflora 12: 243, tt. 407 & 408. 1863; H. Hara, Fl. E. Himal. 337. 1966.
Naturalised.

Dahlia x pinnata Cav., Icon. 1: 57, t. 80. 1791; Deb, Fl. Tripura 2: 213. 1983.
Naturalised.

Dahlia rosea Cav., Icon. 3: 33, t. 265. 1794; Raizada & H.O. Saxena, Fl. Mussoorie 1: 355. 1978.
Cultivated.

DICHROCEPHALA L'Hér. ex DC. in Arch. Bot. (Paris) 2: 517. 1833.

Dichrocephala benthamii C.B. Clarke, Compos. ind. 36. 1876; Hook. f., Fl. Brit. India 3: 246. 1881.
E Himalaya, NE India.

Dichrocephala chrysanthemifolia (Blume) DC. in Wight, Contr. bot. India 11. 1834; Hook. f., Fl. Brit. India 3: 245. 1881; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1528. 2001.
Cotula chrysanthemifolia Blume, Bijdr. 918. 1826.
Himalayas.

Dichrocephala hamiltonii Hook. f., Fl. Brit. India 3: 246. 1881.
NE India.

Dichrocephala integrifolia (L.f.) Kuntze, Revis. gen. pl. 1: 333. 1891; R.K. Gupta, Fl. nainital. 186. 1968.
Hippia integrifolia L.f., Suppl. pl. 389. 1782.
Grangea latifolia Poir. in Lam., Encycl. suppl. 2: 826. 1812.
Dichrocephala latifolia (Poir.) DC. in Wight, Contr. bot. India 11. 1834; Wight, Icon. pl. Ind. orient. t. 1096. 1846; Hook. f., Fl. Brit. India 3: 245. 1881.
Dichrocephala bicolor (Roth) Schltdl. in Linnaea 25: 209. 1852.
ssp. **integrifolia.**
Almost throughout tropical India.

ssp. **gracilis** (DC.) Fayed in Mitt. Bot. Staatssamml. München 15: 500. 1976; R.R. Rao et al., Fl. ind. enum. -Asterac. 33. 1988.
Dichrocephala gracilis DC., Prodr. 5: 371. 1836.
Himalayas.

DICOMA Cass. in Bull . Sci. Soc. Philom. Paris 1817: 12. 1817.
HOCHSTETTERIA DC., Prodr. 7: 287. 1838.

Dicoma schimperi (DC.) Baill. ex O. Hoffm. in Engl. & Prantl, Nat. Pflanzenfam. IV, 5: 339. 1893.
Hochstetteria schimperi DC., Prodr. 7: 287. 1838; *Hook. f., Fl. Brit. India 3: 388. 1881; Hajra in Hajra et al. (Eds.), Fl. India 13: 177. 1995.
NW Himalaya.
Note: *Hook.f., op. cit. reported this species from Sind (Scind).

Dicoma tomentosa Cass. in Bull. Sci. Soc. Philom. Paris 1817: 12. 1817; Hook. f., Fl. Brit. India 3: 387. 1881.
Dicoma lanuginosa DC. in Wight, Contr. bot. India 26. 1834; Wight, Icon. pl. Ind. orient. t. 1140. 1846.
Almost throughout India.

DIMORPHOTHECA Moench, Methodus 585. 1794.

Dimorphotheca pluvialis Moench, Methodus 585. 1794; R.R. Rao et al., Fl. ind. enum. -Asterac. 33. 1988.
NW Himalaya.

DOLOMIAEA DC. in Arch. Bot. (Paris) 2: 330. 1833.

Dolomiaea baltalensis Dar & Naqshi in J. Bombay Nat. Hist. Soc. 87: 278. f. 3, A-C. 1990.
Kashmir Himalaya.

Dolomiaea cooperi (J. Anthony) Ling in Acta Phytotax. Sin. 10: 87. 1965.
Jurinea cooperi J. Anthony in Notes Roy. Bot. Gard. Edinburgh 18: 21. 1933.
E. Himalaya.

DORONICUM L., Sp. pl. 885. 1753.

Doronicum altaicum Pall. in Acta Acad. Sci. Imp. Petrop. 2: 271. 1779; R.R. Rao et al., Fl. ind. enum. Asterac. 33. 1988.
NW Himalaya.

Doronicum falconeri C.B. Clarke ex Hook. f., Fl. Brit. India 3: 333. 1881.
W Himalaya.

Doronicum pardalianches L., Sp. pl. 885. 1753; R. Mathur in Hajra et al., (Eds.), Fl. India 13: 204, f. 65. 1995.
NW Himalaya.

Doronicum roylei DC., Prodr. 6: 321. (1837) 1838; Hook. f., Fl. Brit. India 3: 332. 1881.
var. **roylei.**
Himalayas.

var. **epapposa** Hook. f., Fl. Brit. India 3: 332. 1881.
Kashmir Himalaya.

DUBYAEA DC., Prodr. 7: 247. 1838.

Dubyaea hispida (D. Don) DC., Prodr. 7: 247. 1838.
Hieracium hispidum D. Don, Prodr. fl. nepal. 165. 1825.

Lactuca dubyaea C.B. Clarke, Compos. ind. 271. 1876; Hook. f., Fl. Brit. India 3: 409. 1881.
Crepis bhotanica Hutch. in Bull. Misc. Inform. 1916: 189. 1916.
Himalayas.

Dubyaea oligocephala (Sch.Bip.) Stebbins in J. Bot. 75: 17. 1937; R.R. Rao et al., Fl. ind. enum. -Asterac. 34. 1988.
Paleya oligocephala Sch.Bip. in Jahresber. Pollichia 22-24: 320. 1866.
Crepis sibirica sensu C.B. Clarke, Compos. ind. 252. 1876 non L., 1753; Hook. f., Fl. Brit. India 3: 394. 1881.
ssp. **oligocephala.**
W Himalaya.

ssp. **latifolia** Stebbins in Mem. Torrey Bot. Club 19: 20 - 22. 1940; Mamgain & R.R. Rao in Hajra et al., (Eds.), Fl. India 12: 277. 1995.
W Himalaya.

DUHALDEA DC., Prodr. 5: 366. 1836.

Duhaldea cappa (Buch.-Ham. ex D. Don) Pruski & Anderb. in Compositae Newslett. 40: 44. 2003.
Conyza cappa Buch.-Ham. ex D. Don, Prodr. fl. Nepal. 176. 1825.
Inula cappa (Buch.-Ham. ex D.Don) DC., Prodr. 5: 469. 1836; Hook. f., Fl. Brit. India 3: 295. 1881.
Duhaldea chinensis var. *cappa* (Buch.-Ham. ex D. Don) Steetz in Bonplandia 5: 308. 1857.
Duhaldea eriophora Steetz in Bonplandia 5: 308. 1857.
NE India, Temperate Himalaya.

Duhaldea chinensis DC., Prodr. 5: 366. 1836.
Inula cappa sensu Hook. f., Fl. Brit. India 3: 295. 1881 p.p. non (Buch.-Ham. ex D.Don) DC., 1836.
Temperate Himalaya.

Duhaldea cuspidata (DC.) Anderb. in Pl. Syst. Evol. 176: 104. 1991.
Amphirhapis cuspidata DC., Prodr. 5: 343. 1836.
Inula cuspidata (DC.) C.B. Clarke, Compos. ind. 125. 1876; Hook. f., Fl. Brit. India 3: 296. 1881.
Helenium cuspidatum (DC.) Kuntze, Revis. gen. pl. 1: 341. 1891; B.M. Sharma & Kachroo, Fl. Jammu 190. 1981.
Himalayas, N India.

Duhaldea eupatorioides (DC.) Steetz in Bonplandia 5: 308. 1857.
Inula eupatorioides DC., Prodr. 5: 469. 1836; Hook. f., Fl. Brit. India 3 :295. 1881.
E Himalaya, NE India.

Duhaldea griffithii (C.B. Clarke) Anderb. in Pl. Syst. Evol. 176: 104. 1991.
Inula griffithii C.B. Clarke, Compos. ind. 126. 1876; Hook. f., Fl. Brit. India 3: 296. 1881.
NE India.

Duhaldea latifolia (DC.) Dawar & Qaiser in Adansonia ser. 3, 21: 326. 1999.
Inula latifolia DC., Prodr. 5: 468. 1836.
Kashmir Himalaya.

Duhaldea nervosa (Wall. ex DC.) Anderb. in Pl. Syst. Evol. 176: 104. 1991.
Inula nervosa Wall. ex DC., Prodr. 5: 471. 1836; Hook. f., Fl. Brit. India 3: 293. 1881.
var. **nervosa.**
NE India, Temperate Himalayas.

var. **purpurascens** (Hook. f.) Karthik. & Moorthy comb. nov.
Inula nervosa var. *purpurascens* Hook. f., Fl. Brit. India 3: 293. 1881.
N & NE India.

Duhaldea rubricaulis (DC.) Anderb. in Pl. Syst. Evol. 176: 104. 1991.
Amphirhapis rubricaulis DC., Prodr. 5: 343. 1836.
Inula rubricaulis (DC.) C.B. Clarke, Compos. ind. 126. 1876; Hook. f., Fl. Brit. India 3: 296. 1881.
NE India, Sub tropical Himalayas.

Duhaldea simonsii (C.B. Clarke) Anderb. in Pl. Syst. Evol. 176: 104. 1991.
Inula simonsii C.B. Clarke, Compos. ind. 121. 1876; Hook. f., Fl. Brit. India 3: 293. 1881.
NE India, E. Himalaya ?
Note: In the Websites IPNI & Tropicos and Index kewensis the specific epithet is given as *'simmonsii'* However C.B. Clarke, op. cit. indicates the type collector as 'Dr. Simons'.

ECHINOPS L., Sp. pl. 814. 1753.

Echinops cornigerus DC., Prodr. 6: 525. (1837) 1838; Hook. f., Fl. Brit. India 3: 358. 1881.
C to NW Himalaya.

Echinops echinatus Roxb., Fl. ind. (Ed. Carey) 3: 447. 1832; Hook. f., Fl. Brit. India 3: 358. 1881
Throughout hotter parts of India including Himalayas.

Echinops niveus Wall. ex Royle, Ill. bot. Himal. Mts. t. 56, f. 1. 1835; Hook. f., Fl. Brit. India 3: 359. 1881.
W Himalaya.

Echinops prionolepis Bornm. & Mattf. in Notizbl. Bot. Gart. Berlin -Dahlem 15: 116. 1940.
NW Himalaya.

ECLIPTA L., Mant. pl. 2: 286. 1771.

Eclipta prostrata (L.) L., Mant. pl. 2: 286. 1771; R.K.Gupta, Fl. nainital. 195. 1968.
Verbesina prostrata L., Sp. pl. 902. 1753.
Verbesina alba L., Sp. pl. 902. 1753.
Eclipta erecta L., Mant. pl. 2: 286. 1771.
Eclipta alba (L.) Hassk., Pl. jav. rar. 528. 1848; Hook. f., Fl. Brit. India 3: 304. 1881.
Eclipta prostrata var. *dixitii* Anand Kumar & K.K. Khanna in J. Econ. Taxon. Bot. 23: 713, f.1, A – H. 1999.
Throughout India.

ELEPHANTOPUS L., Sp. pl. 814. 1753.

Elephantopus scaber L., Sp. pl. 814. 1753; Wight, Icon. pl. Ind. orient. t. 1086. 1846; Hook. f., Fl. Brit. India 3: 242. 1881.
Throughout India.

ELEUTHERANTHERA Poit. ex Bosc in Nouv. Dict. Hist. Nat. ed. 1. 7: 498. 1803.

Eleutheranthera ruderalis (Sw.) Sch.Bip. in Bot. Zeitung (Berlin) 24: 239. 1866; Bennet in Curr. Sci. 43: 411. 1965; P. Singh & S.S. Dash in J. Econ. Taxon. Bot. 22: 741. (1998) 1999.
Melampodium ruderale Sw., Fl. Ind. occid. 3: 1372. 1806.
Andaman & Nicobar Islands, E Himalaya, Kerala, Lakshadweep,W Bengal.

EMILIA Cass. in Bull. Sci. Soc. Philom. Paris 1817: 68. 1817.

Emilia alstonii Fosberg in Ceylon J. Sci., Biol. Sci. 10: 66. 1972; Ramamoorthy in C.J. Saldanha & Nicolson (Eds.), Fl. Hassan dist. 613. 1978 (2nd repr.).
Karnataka.

Emilia exserta Fosberg in Ceylon J. Sci., Biol. Sci. 10: 65. 1972; Ramamoorthy in C.J. Saldanha & Nicolson (Eds.), Fl. Hassan dist. 613. 1978 (2nd repr.).
Karnataka.

Emilia javanica (Burm.f.) C.B. Rob. in Philipp. J. Sci. 3: 217. 1908; Backer & Bakh. f., Fl. Java 2: 428. 1965.
Hieracium javanicum Burm. f., Fl. indica 174, pl. 57, f. 1. 1768.
Cacalia sagittata Vahl, Symb. bot. 3: 91. 1794.
Cacalia coccinea Sims in Curtis, Bot. Mag. (Ed. Sims) 16: t. 564. 1802.
Prenanthes javanica Willd., Sp. pl. 3: 1534. 1803.
Emilia flammea Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 14: 406, t. 5. 1819; Hook. f., Fl. Brit. India 3: 336. 1881.
Emilia sagittata (Vahl) DC., Prodr. 6: 302. (1837) 1838.
Emilia coccinea (Sims) G. Don in Sweet, Hort. brit. ed. 3. (Ed.G. Don) 382. 1839.
E N NE & Peninsular India.

Emilia prenanthoidea DC., Prodr. 6: 303. (1837) 1838; Hook. f., Fl. Brit. India 3: 336. 1881.
E Himalaya, NE India.

Emilia ramulosa Gamble in Bull. Misc. Inform. 1921: 120. 1921 (Fl. Madras 2: 504. 1967, Repr.).
SW Ghats.

Emilia scabra DC., Prodr. 6: 303. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 1123. 1846; Gamble, Fl. Madras 2: 503. 1967 (Repr.).
Emilia sonchifolia (L.) DC. var. *scabra* (DC.) Hook. f., Fl. Brit. India 3: 336. 1881.
NE & Peninsular India.

Emilia sonchifolia (L.) DC. in Wight, Contr. bot. India 24. 1834; Hook. f., Fl. Brit. India 3: 336. 1881.
Cacalia sonchifolia L., Sp. pl. 835. 1753.
var. **sonchifolia.**
Throughout India.

var. **mucronata** C.B. Clarke, Compos. ind. 175. 1876; Hook. f., Fl. Brit. India 3: 336. 1881.
S. India.

Emilia zeylanica C.B. Clarke, Compos. ind. 175. 1876; Hook. f., Fl. Brit. India 3: 336. 1881.
var. **zeylanica.**
NE & Peninsular India.

var. **paludosa** Gamble, Fl. Madras 716. 1921 (2. 504. 1967,Repr.).
Peninsular India.

ENYDRA Lour., Fl. cochinch. 510. 1790.

Enydra fluctuans Lour., Fl. cochinch. 511. 1790; Hook. f., Fl. Brit. India 3: 304. 1881.
Throughout India.

EPALTES Cass. in Bull. Sci. Soc. Philom. Paris 1818: 139. 1818.
SPHAEROMORPHAEA DC., Prodr. 6: 140. (1837) 1838.

Epaltes australis Less. in Linnaea 5: 148. 1831 & Syn. gen. Compos. 206. 1832.
Sphaeromorphaea russeliana DC., Prodr. 6: 140. (1837) 1838; Hook. f., Fl. Brit. India 3: 317. 1881.
Sphaeromorphaea australis (Less.) Kitam. in Acta Phytotax. Geobot. 6: 80. 1937; R.R. Rao et al., Fl. ind. enum.- Asterac. 73. 1988.
E & S India.

Epaltes divaricata (L.) Cass. in Bull. Sci. Soc. Philom. Paris 1818: 139. 1818; Hook. f., Fl. Brit. India 3: 274. 1881.
Ethulia divaricata L., Mant. pl. 1: 110. 1767.
E N to S India.

Epaltes pygmaea DC., Prodr. 5: 461. 1836; Hook. f., Fl. Brit. India 3: 274. 1881.
S India.

EPILASIA (Bunge) Benth. in Benth. & Hook. f., Gen. pl. 2: 532. 1873.
SCORZONERA sect. EPILASIA Bunge, Beitr. Fl. Russl. 200. 1852.

Epilasia ammophila (Bunge) C.B. Clarke, Compos. ind. 279. 1876; Hook. f., Fl. Brit. India 3: 419. 1881.
Scorzonera ammophila Bunge, Beitr. Fl. Russl. 202. 1852.
Punjab.

ERECHTITES Raf., Fl. ludov. 65. 1817.

Erechtites hieracifolia (L.) Raf. ex DC., Prodr. 6: 294. (1837) 1838; R.R. Rao et al., Fl. ind. enum.-Asterac. 36. 1988.
Senecio hieracifolius L., Sp. pl. 866. 1753.
C & S India.

Erechtites valerianaefolia (Wolf ex Rchb.) DC., Prodr. 6: 295. (1837) 1838; Deb, Fl. Tripura 2: 216. 1983.
Senecio valerianaefolius Wolf ex Rchb., Iconogr. bot. exot. 1: 59, t. 85. 1827.
Almost throughout India.

ERIGERON L., Sp. pl. 863. 1753.

Erigeron acris L., Sp. pl. 863. 1753 ('acre'); N.C. Nair, Fl. Bashahr Himal. 151. 1977.
Erigeron alpinus L., Sp. pl. 864. 1753('alpinum'); Hook. f., Fl. Brit. India 3: 255. 1881.
var. **acris.**
Himalayas, NE India, Nilgiris.

var. **khasiana** (Hook. f.) Hajra in Hajra et al., (Eds.) Fl. India 12: 118. 1995.
Erigeron alpinus var. *khasiana* Hook. f., Fl Brit. India 3: 255. 1881.
Himalayas, NE India.

var. **multicaulis** (Wall. ex DC.) C.B. Clarke, Compos. ind. 53. 1876.
Erigeron multicaulis Wall. ex DC., Prodr. 5: 292. 1836.
Erigeron alpinus var. *multicaulis* (Wall. ex DC.) Hook. f., Fl. Brit. India 3: 255. 1881.
N India, temperate & alpine Himalayas.

Erigeron altissimus R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 744. 1972; R.R. Rao et al., Fl. ind. enum.-Asterac. 36. 1988.
NW Himalaya.

Erigeron angustissimum Lindl. ex DC., Prodr. 5: 286. 1836; *Hook. f., Fl. Brit. India 3: 256. 1881; R.R. Stewart in Nasir & Ali (Eds.),Fl. W. Pakistan 744. 1972.
NW Himalaya.
Note: *Hook.f., op.cit. included this under 'Doubtful species'

Erigeron annuus (L.) Pers., Syn. pl. 2: 431. 1807; Raizada & H.O. Saxena, Fl. Mussoorie 1: 375. 1978.
Aster annuus L., Sp. pl. 875. 1753.
Cultivated.

Erigeron bellidioides (Buch.-Ham. ex D. Don) Benth. in Benth. & Hook. f., Gen. pl. 2: 280. 1873; Hook. f., Fl. Brit. India 3: 256. 1881.
Aster bellidioides Buch.-Ham. ex D. Don, Prodr. fl. nepal. 177. 1825.
E & NE India, Himalayas.

Erigeron jaeschkei Vierh. in Beih. Bot. Centralbl. 19: 491. 1906; R.R. Rao et al., Fl. ind. enum. -Asterac. 37. 1988.
NW Himalaya.

Erigeron karvinskianus DC., Prodr. 5: 285. 1836; Santapau in Rec. Bot. Surv. India 16 (1): 126. 1967 (3rd rev. ed.).
Erigeron mucronatum DC., Prodr. 5: 285. 1836; Gamble, Fl. Madras 2: 480. 1967 (Repr.).
Cultivated.

Erigeron kumaonensis (Vierh.) Wendelbo in Nytt Mag. Bot. 1: 62. 1952; G. Miehe in Bull. Brit. Mus. ‹Nat. Hist.›, Bot. 16: 243. 1987.
Trimorpha kumaonensis Vierh. in Beih. Bot. Centralbl. 19: 467. 1906.
Erigeron alpinus Hook. f., Fl. Brit. India 3: 253. 1881 p.p.
Himalayas, NE India.

Erigeron monticolus DC., Prodr. 5: 286. 1836; Hook. f., Fl. Brit. India 3: 255. 1881.
Temperate & alpine Himalayas.

Erigeron multiradiatus (Lindl. ex DC.) C.B. Clarke, Compos. ind. 56. 1876; Hook. f., Fl. Brit. India 3: 256. 1881; G. Miehe in Bull. Brit. Mus. ‹Nat. Hist.›, Bot. 16: 243. 1987.
Stenactis multiradiata Lindl. ex DC., Prodr. 5: 299. 1836.
Aster roylei Onno in Biblioth. Bot. 56: 67. 1932.
Temperate & alpine Himalayas.

Erigeron pseudohyrcanicus Grierson ex R.R. Stewart in Nasir & Ali (Eds.),Fl. W. Pakistan 745. 1972; R.R. Rao et al., Fl. ind. enum. -Asterac. 37. 1988.
NW Himalaya.
Note: Hajra in Hajra et al. (Eds.), Fl. India 12: 127. 1995 treated this under 'Excluded species.'

Erigeron pusillus Nutt., Gen. N. Amer. pl. 2: 148. 1818; N.P. Balakr., Fl. Jowai 1: 263. 1981.
NE India.

Erigeron roylei DC., Prodr. 5: 292. 1836; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 218. 1983.
Erigeron ellisii Hook. in Hooker's Icon. Pl. ser. 3, 15: t. 1447. 1883 - 1885.
W Himalaya.

Erigeron schmalhausenii Popov in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 8: 51. 1940 in obs. & Trudy Bot. Inst. Akad. Nauk SSSR, ser. 1, Fl. Sist. Vyss. Rast. fasc. 7: 11. 1948, in clavi; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 746. 1972.
NW Himalaya.

Erigeron semibarbatus DC., Prodr. 5: 292. 1836; R.K. Gupta, Fl. nainital. 194. 1968.
Erigeron alpinus var. *semibarbatus* (DC.) Hook. f., Fl. Brit. India 3: 255. 1881.
W Himalaya.

Erigeron speciosus (Lindl.) DC., Prodr. 5: 284. 1836; Mahab. in Anonymous, State Gazette. Maharashtra 4: 364. 1987.
Stenactis speciosus Lindl. in Edwards' Bot. Reg. (Ed. Lindl.) 19: t. 1577. 1833.
Cultivated.

Erigeron sublyratus DC. in Wight, Contr. bot. India 9. 1834; Hajra in Hajra et al., (Eds.), Fl. India 12: 125. 1995.
Erigeron asteroides Roxb., Fl. ind. (Ed. Carey) 3: 432. 1832; Hook. f., Fl. Brit. India 3: 254. 1881.
Throughout India.
Note- M.R. Almeida provides the name *Erigeron benghalensis* based on *Aster benghalensis* Heyne ex DC., Prodr. 5: 292. 1836.

Erigeron swatensis Grierson ex R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 746. 1972; R.R. Rao et al., Fl. ind. enum. -Asterac. 37. 1988.
NW Himalaya.

Erigeron uniflorus L., Sp. pl. 864. 1753; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 120. 1983.
Erigeron alpinus var. *uniflorus* (L.) Hook. f., Fl. Brit. India 3: 256. 1881.
Alpine W Himalaya.

Erigeron venustus Botsch. in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 16: 387. 1954, in obs. ; R.R. Rao et al., Fl. ind. enum. -Asterac. 38. 1988.
NW Himalaya.

Erigeron wightii DC., Prodr. 5: 286. 1836; Hajra in Hajra et al., (Eds.), Fl. India 12: 126. 1995.
Erigeron alpinus var. *wightii* (DC.) Hook. f., Fl. Brit. India 3: 255. 1881.
SW Ghats.

Doubtful variety:
M.A. Rau, High alt. fl. pl. W. Himal. 131. 1975 listed *Erigeron alpinus* var. *patentisquama* C.B. Clarke about which no information is available.

ETHULIA L. f., Dec. pl. horti upsal. 1. 1762.

Ethulia conyzoides L. f., Dec. pl. horti upsal. 1, t. 1. 1762; Hook. f., Fl. Brit. India 3: 227. 1881; M.G. Gilbert & C. Jeffrey in Kew Bull. 43: 169. 1988.
E Himalaya, E & NE India.

Ethulia megacephala Sch.Bip. ex Miq., Fl. Ned. Ind. 2: 8. 1856; R.R. Rao et al., Fl. ind. enum.- Asterac. 38. 1988.
Ethulia conyzoides Zoll. in Natuur- Geneesk. Arch. Ned.-Indië 2: 224. 1845 non L. f., 1762.
E Himalaya, NE India.

EUPATORIUM L., Sp. pl. 836. 1753.

Eupatorium birmanicum DC., Prodr. 5: 179. 1836; Kanjilal et al., Fl. Assam 3: 108. 1939.
NE India.

Eupatorium capillifolium (Lam.) Small ex Porter & Britton in Mem. Torrey Bot. Club 5: 311. 1894; H. Hara, Fl. E. Himal. 339. 1966.
Artemisia capillifolia Lam., Encycl. 1: 266. 1783.
Eupatorium foeniculaceum Willd., Sp. pl. 3: 1750. 1803.
Introduced.

Eupatorium chinense L., Sp. pl. 837. 1753; N.P. Balakr., Fl. Jowai 1: 260. 1981.
Eupatorium squamosum D. Don, Prodr. fl. nepal. 170. 1825.
Eupatorium reevesii Wall. ex DC., Prodr. 5: 179. 1836; Hook. f., Fl. Brit. India 3: 243. 1881.
NE India, Subtropical Himalayas.

Eupatorium coelestinum L., Sp. pl. 838. 1753; Uniyal in Hajra et al., (Eds.) Fl. India 12: 358. 1995.
Introduced.

Eupatorium conyzoides Vahl, Symb. bot. 3: 96. 1794; R.R. Rao et al., Fl. ind. enum. -Asterac. 38. 1988.
N & W India.

Eupatorium erythropappum B.L. Rob. in Proc. Boston Soc. Nat. Hist. 31: 248. 1904; R.B. Ghosh, R.N. Banerjee & A.K. Ghosh in J. Bombay Nat. Hist. Soc. 73: 554. 1977.
E India.

Eupatorium ianthinum (Morren) Hemsl. in Biol. Cent.-amer., Bot. 2(7): 96. 1881; V. Chandras. in A.N. Henry et al., (Eds.) Fl. Tamilnadu anal. 2: 39. 1987.
Conoclinium ianthinum Morren in Ann. Acad. Gand. 5: 173. 1849.
Cultivated.

Eupatorium mairei H. Lév. in Bull. Acad. Int. Geogr. Bot. 25: 14. 1915; Grierson & Spring, in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1630. 2001.
Eupatorium cannabinum sensu Hook. f., Fl. Brit. India 3: 243. 1881 p.p. non L., 1753.
var. **mairei.**
NE India, temperate Himalayas.

var. **heterophyllum** (DC.) Karthik. & Moorthy comb. nov.
Eupatorium heterophyllum DC., Prodr. 5: 180. 1836.
Eupatorium cannabinum ssp. *asiaticum* Kitam. var. *heterophyllum* (DC.) Kitam. in Acta Phytotax. Geobot. 32: 139. 1981; R.R. Rao et al., Fl. ind. enum.- Asterac. 38. 1988.
Himalayas.

Eupatorium nodiflorum Wall. ex DC., Prodr. 5: 179. 1836; N.P. Balakr., Fl. Jowai 1: 260. 1981.
Eupatorium cannabinum sensu Hook. f., Fl. Brit. India 3: 243. 1881 p.p. non L., 1753.
E & NE India, Himalayas.

Eupatorium repandum Willd., Sp. pl. 3: 1767. 1803; R.R. Rao et al., Fl. ind. enum. -Asterac. 38. 1988.
N NE & S India.

Eupatorium wallichii DC., Prodr. 5: 179. 1836; Kanjilal et al., Fl. Assam 3: 108. 1939.
NE India, Subtropical Himalayas.

FELICIA Cass. in Bull. Sci. Soc. Philom. Paris 1818: 165. 1818 nom. cons.

Felicia heterophylla (Cass.) Grau in Mitt. Bot. Staatssamml. München 9: 558. 1973; M.R. Almeida, Fl. Maharashtra 3A: 105. 2001.
Charieis heterophylla Cass. in Bull. Sci. Soc. Philom. Paris 1817: 68. 1817.
Cultivated.

FILAGO L., Sp. pl. 927, 1199, [1230]. 1753 nom. cons.

Filago germanica L., Sp. pl. ed. 2. 1311. 1763; Hook. f., Fl. Brit. India 3: 277. 1881.
Plains and mountains of NW India.

Filago hurdwarica (Wall. ex DC.) Wagenitz in Willdenowia 4: 291, t. 3. 1968.
Gnaphalium hurdwaricum Wall. ex DC., Prodr. 6: 231. (1837) 1838.
Filago germanica sensu Hook. f., Fl. Brit. India 3: 277. 1881 p.p. non L., 1753.
W Himalaya.

Filago paradoxa Wagenitz in Willdenowia 5: 429. 1969; P.C. Pant in Hajra et al. (Eds.), Fl. India 13: 46. 1995.
NW Himalaya.

Filago pyramidata L., Sp. pl. 1199. 1753; Bir & M. Sharma in Bull. Bot. Surv. India 26: 218. (1984) 1986.
Filago spathulata J. Presl, Delic. prag. 99. 1822.
Filago germanica var. *spathulata* (J. Presl) DC., Prodr. 6: 247. (1837) 1838.
Filago germanica sensu Hook. f., Fl. Brit. India 3: 277. 1881 non L., 1753.
Filago germanica var. *pyramidata* (L.) DC., Prodr. 6: 247 (1837) 1838.
NW Himalaya, NW India.

FLAVERIA Juss., Gen. pl. 186. 1789.

Flaveria bidentis (L.) Kuntze, Revis. gen. pl. 3(2): 148. 1898; H.J. Chowdhery in Hajra et al. (Eds.), Fl. India 12: 386. 1995.
Ethulia bidentis L., Mant. pl. 1: 110. 1767.
Rajasthan southwards.

Flaveria trinervia (Spreng.) C. Mohr in Contr. U.S. Natl. Herb. 6: 810. 1901; Raizada, Suppl. Duthie's fl. Gangetic plain 117. 1976.
Oedera trinervia Spreng., Bot. Gart. Halle 63. 1800.
Flaveria contrayerba Pers., Syn. pl. 2: 489. 1807.
Flaveria repanda Lag., Gen. sp. pl. 33. 1816.
Flaveria australasica Hook. in T. Mitch., J. exped. trop. Australia 118. 1848.
Introduced in many parts of India.

GAILLARDIA Foug. in Observ. Phys. 29: 55. 1786 ('GAILLARDA').

Gaillardia amblyodon J. Gay in Ann. Sci. Nat. Bot. ser. 2, 12. 62. 1839; R.R. Rao et al., Fl. ind. enum. Asterac. 39. 1988.
Cultivated.

Gaillardia aristata Pursh, Fl. Amer. sept. 2: 573. (1813) 1814; Deb, Fl. Tripura 2: 219. 1983.
Cultivated.

Gaillardia pulchella Foug. in Mém. Acad. Sci. (Paris) 1786: 5. 1788; Chandrab. & N.C. Nair, Fl. Coimbatore 162. 1988.
Cultivated.

GALINSOGA Ruiz & Pav., Fl. peruv. prodr. 110. 1794.

Galinsoga parviflora Cav., Icon. 3: 41, t. 281. 1794; Hook. f., Fl. Brit. India 3: 311. 1881.
Naturalised almost throughout India.

Galinsoga quadriradiata Ruiz & Pav., Syst. veg. fl. peruv. chil. 1: 198. 1798; V. Chandras. in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 40. 1983.
Adventina ciliata Raf., New Fl. 1: 67. 1836.
Galinsoga ciliata (Raf.) S.F. Blake in Rhodora 24: 35. 1922.
Throughout India.

GAMOCHAETA Wedd., Chlor. andina 1: 151. 1856.

Gamochaeta pensylvanica (Willd.) Cabrera in Bol. Soc. Argent. Bot. 9: 375. 1961; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1523.2001.
Gnaphalium pensylvanicum Willd., Enum. pl. 2: 867. 1809; Grierson in Notes Roy. Bot. Gard. Edinburgh 31: 137. 1971.
Gnaphalium peregrinum Fernald in Rhodora 45: 479, t. 795. 1943.
Gnaphalium purpureum sensu Hook. f., Fl. Brit. India 3: 289. 1881 non L., 1753.
Almost throughout India.

GARHADIOLUS Jaub. & Spach, Ill . pl. orient. 3: 119. 1850.

Garhadiolus minutissimus (Bunge) Kitam. in Acta Phytotax. Geobot. 17: 35. 1957; M.K. Kaul, Weed fl. Kashmir valley 174. 1986.
Hedypnois minutissima Bunge in Mém. Sav. Étr. Acad. St.-Pétersbourg 7: 372. 1847 & Beitr. Fl. Russl. 196. 1852.
Rhagadiolus hedypnois Fisch. & C.A. Mey., Index sem. hort. petrop. 4: 46. 1837 non All., 1785; Hook. f., Fl. Brit. India 3: 392. 1881.
NW Himalaya.

GERBERA L., Opera var. 247. 1758 nom. cons.

Gerbera gossypina (Royle) Beauverd in Bull. Soc. Bot. Genève 2: 40. 1910; Raizada, Suppl. Duthie's fl. Gangetic plain 119. 1976.
Chaptalia gossypina Royle, Ill. bot. Himal. Mts. 251, t. 59, f. 2. 1835.
Oreoseris lanuginosa Wall. ex DC., Prodr. 7: 17. 1838.
Gerbera lanuginosa (Wall. ex DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 497. 1873; Hook. f., Fl. Brit. India 3: 390. 1881.
Himalayas, Upper Gangetic Plains.

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Cultivated.

Gerbera maxima (D. Don) Beauverd in Bull. Soc. Bot. Genève 2: 44. 1910; S.K. Mukerjee in Rec. Bot. Surv. India 20 (2): 128. 1973.
Chaptalia maxima D. Don, Prodr. fl. nepal. 166. 1825.
Gerbera macrophylla Benth. ex Hook. f., Fl. Brit. India 3: 391. 1881.
var. **maxima.**
Himalayas, NE India.

var. **glabrata** (Hook. f.) Kitam. in Kihara (Ed.), Fauna & fl. Nepal Himal. 259. 1955; H. Hara, Fl. E. Himal. 339. 1966.
Gerbera macrophylla var. *glabrata* Hook. f., Fl. Brit. India 3: 391. 1881.
E Himalaya, NE India.

Gerbera nivea (DC.) Sch.Bip. in Flora 27: 780. 1844; H.V. Hansen in Nord. J. Bot. 8: 66. 1988.
Oreoseris nivea DC., Prodr. 7: 18. 1838.
Himalayas, NE India.

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GLOSSOGYNE Cass. in F. Cuvier's Dict. Sci. nat. ed. 2. 51: 475. 1827.

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Zinnia bidens Retz., Observ. bot. 5: 28. 1788.
Glossogyne pinnatifida DC. in Wight, Contr. bot. India 19. 1834; Hook. f., Fl. Brit. India 3: 310. 1881.
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Neuractis bidens (Retz.) Veldkamp ex Mesfin in Kew Bull. 45: 144. 1990.
Almost throughout India.

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Verbesina bosvallea L. f., Suppl. pl. 379. 1782.

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Glossocardia setosa Blatt. & Hallb. in J. Bombay Nat. Hist. Soc. 26: 536. 1919.
Almost throughout India.

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Himachal Pradesh.

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E India.

Gnaphalium polycaulon Pers., Syn. pl. 2: 421. 1807; Crierson in Notes Roy. Bot. Gard. Edinburgh 31: 137. 1971.
Gnaphalium indicum sensu Hook. f., Fl. Brit. India 3: 289. 1881 non L., 1753.
Throughout India.

Gnaphalium thomsonii Hook. f., Fl. Brit. India 3: 290. 1881.
W Himalaya.

GOCHNATIA Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 15 & (ed. quarto) 19. 1820.
Leucomeris D. Don, Prodr. fl. nepal. 169. 1825.

Gochnatia decora (Kurz) Cabrera in Revista Mus. La Plata, Secc. Bot. 12(66): 131. 1971.
Leucomeris decora Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 41 : 317. 1872; Hook. f., Fl. Brit. India 3: 387. 1881; Kanjilal et al., Fl. Assam 3: 125. 1939.
NE India.

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C to W Himalaya, N India.

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Goniocaulon indicum (Klein ex Willd.) C.B. Clarke, Compos. ind. 236. 1876; G.L. Shah, Fl. Gujarat 383. 1978.
Serratula indica Klein ex Willd., Sp. pl. 3: 1642. 1803.
Goniocaulon glabrum Cass. in Bull. Sci. Soc. Philom. Paris 1817: 34. 1817; Wight, Icon. pl. Ind. orient. t. 479. 1841; Hook. f., Fl. Brit. India 3: 377. 1881.
Throughout India.

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Grangea maderaspatana (L.) Poir. in Lam., Encycl. suppl. 2: 825. 1812; Wight, Icon. pl. Ind. orient. t. 1097. 1846; Hook. f., Fl. Brit. India 3: 247 1881.
Artemisia maderaspatana L., Sp. pl. 849. 1753.
Throughout India.

GUIZOTIA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 59: 237, 247, 248. 1829 nom. cons.

Guizotia abyssinica (L.f.) Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 59: 248. 1829; Hook. f., Fl. Brit. India 3: 308. 1881.
Polymnia abyssinica L.f., Suppl. pl. 383. 1782.
Cultivated in many parts of India.

GYNURA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 34: 391. 1825 nom. cons.

Gynura aurantiaca (Blume) DC., Prodr. 6: 300. (1837) 1838; N. Rani & K. M. Matthew in K.M. Matthew, Fl. Tamilnadu Carnatic 3: 798. 1983.
Cacalia aurantiaca Blume, Bijdr. 908. 1826.
Crassocephalum crepidioides sensu K.M. Matthew, Fl. Tamilnadu Carnatic t. 361. 1982 non (Benth.) S. Moore, 1912.
Andaman & Nicobar Islands, S India.

Gynura auriculata Cass., Opusc. phytol. 3: 100. 1834; Hook. f., Fl. Brit. India 3: 335. 1881.
var. **auriculata**.
Cultivated.

var. **puberula** C.B. Clarke, Compos. ind. 172. 1876; C.E.C. Fisch. in Rec. Bot. Surv. India 12: 105. 1938.
Arunachal Pradesh.

Gynura bicolor (Roxb. ex Willd.) DC., Prodr. 6: 299. (1837) 1838.
Cacalia bicolor Roxb. ex Willd., Sp. pl. 3: 1731. 1803.
Gynura angulosa DC., Prodr. 6: 298. (1837) 1838; Hook. f., Fl. Brit. India 3: 334. 1881.
Gynura angulosa var. *petiolata* Hook. f., Fl. Brit. India 3: 334. 1881.
Gynura cusimbua var. *petiolata* (Hook. f.) R. Mathur in R.R. Rao et al., Fl. ind. enum. -Asterac. 42. 1988.
Almost throughout India.

Gynura cusimbua (D. Don) S. Moore in J. Bot. 50: 212. 1912.
Cacalia cusimbua D. Don, Prodr. fl. nepal. 179. 1825.
Gynura angulosa sensu Hook. f., Fl. Brit. India 3: 334. 1881 p.p. non DC., (1837) 1838.
Crassocephalum cusimbua (D. Don) Kuntze, Revis. gen. pl. 1: 331. 1891.
Throughout India.

Gynura lycopersicifolia DC., Prodr. 6: 300. (1837) 1838; Hook. f., Fl. Brit. India 3: 334. 1881.
ssp. **lycopersicifolia**.
S India.

ssp. **taprobanensis** Grierson in Ceylon J. Sci., Biol. Sci. 11: 20. 1974.
E to S India.

Gynura nepalensis DC., Prodr. 6: 300. (1837) 1838; Hook. f., Fl. Brit. India 3: 333. 1881.
NE India, Temperate Himalayas.

Gynura nitida DC. in Wight, Contr. bot. India 24. 1834 & Prodr. 6: 299. (1837) 1838; Hook. f., Fl. Brit. India 3: 333. 1881.
E to Peninsular India.

Gynura procumbens (Lour.) Merr., Enum. Philipp. fl. pl. 3: 618. 1923; Raizada in Indian Forester 94: 444. 1968.
Cacalia procumbens Lour., Fl. cochinch. 485. 1790.
Cacalia sarmentosa Blume, Bijdr. 907. 1826.
Gynura sarmentosa (Blume) DC., Prodr. 6: 298. (1837) 1838; Hook. f., Fl. Brit. India 3: 335. 1881; Burkill in Rec. Bot. Surv. India 10: 308. 1925.
Arunachal Pradesh.

Gynura pseudochina (L.) DC., Prodr. 6: 299. (1837) 1838; Hook. f., Fl. Brit. India 3: 334. 1881; C. Jeffrey in Kew Bull. 41: 930. 1986.
Senecio pseudochina L., Sp. pl. 867. 1753.

Gynura purpurascens **Wall.** ex DC., Prodr. 6: 299. (1837) 1838; *Hook. f., Fl. Brit. India 3: 335. 1881.
E NE & S India, E Himalaya.
Note: *Hook. f. treated this species under ' Doubtful and excluded species'

Gynura travancorica W. W. Sm. in Rec. Bot. Surv. India 6: 29. 1913.
Peninsular India.

HELIANTHUS L., Sp. pl. 904. 1753.

Helianthus annuus L., Sp. pl. 904. 1753; Prain, Bengal pl. 1: 450. 1963 (Repr.).
Cultivated.

Helianthus argophyllus Torr. & A. Gray, Fl. N. Amer. 2(2): 318–319. 1842.
Cultivated.

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Cultivated.

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Cultivated.

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Cultivated.

Helianthus lateriflorus Pers., Syn. pl. 2: 476. 1807; M.R. Almeida, Fl. Maharashtra 3A: 114. 2001.
Cultivated.

Helianthus mollis Lam., Encycl. 3: 85. 1789; M.R. Almeida, Fl. Maharashtra 3A: 114. 2001.
Cultivated.

Helianthus rigidus (Cass.)Desf., Tabl. école bot. ed. 3. 184. 1829; M.R. Almeida, Fl. Maharashtra 3A: 114. 2001.
Harpalium rigidum Cass. in Bull. Sci. Soc. Philom. Paris 1818: 141. 1818.
Cultivated.

Helianthus scaberrimus Elliott, Sketch bot. S. Carolina 2: 423. 1823; Sundararagh. et al. in Rec. Bot. Surv. India 21 (2): 45. 1981.
Cultivated.

Helianthus tuberosus L., Sp. pl. 905. 1753; Prain, Bengal pl. 1: 451 1963 (Repr.).
Cultivated.

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Helichrysum bracteatum (Vent.) Andrews, Bot. repos. subt. 428. 1805; Chandrab. in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 42. 1987.
Xeranthemum bracteatum Vent., Jard. Malmaison 1: t. 2. 1803.
var. **bracteatum.**
Tamilnadu (naturalised).

var. **albidum** DC., Prodr. 6: 189. (1837) 1838; K.M. Matthew in Rec. Bot. Surv. India 20 (1): 139. 1969.
Tamilnadu (Nilgiris).

Helichrysum buddleioides DC. in Wight, Contr. bot. India 20. 1834 & Icon. pl. Ind. orient. t. 1113. 1846; Hook. f., Fl. Brit. India 3: 290. 1881.
Peninsular India.

Helichrysum cutchicum (C.B. Clarke) R.S. Rao & Deshp. in Bull. Bot. Surv. India 10: 225. 1968.
Anaphalis cutchica C.B. Clarke, Compos. Ind. 111. 1876; Hook. f., Fl. Brit. India 3: 284. 1881.
Gujarat (Cutch).

Helichrysum hookerianum Wight & Arn. in DC., Prodr. 6: 201. (1837) 1838; Gamble, Fl. Madras 2: 492. 1967 (Repr.).
Helichrysum buddleoides var. *hookeriana* (Wight & Arn.) Hook. f., Fl. Brit. India 3: 291. 1881.
S India.

Helichrysum perlanigerum Gamble in Bull. Misc. Inform. 1920: 341. 1921 (Fl. Madras 2: 492. 1967, Repr.).
SW Ghats (Tamilnadu).

Helichrysum wightii C.B. Clarke ex Hook. f., Fl. Brit. India 3: 291. 1881.
SW Ghats (Nilgiris).

HELIPTERUM DC., Prodr. 6: 211. (1837) 1838.

Helipterum manglesii (Lindl.) F. Muell. ex Benth., Fl. austral. 3: 640. 1867; M.R. Almeida, Fl. Maharashtra 3A: 115. 2001.
Rhodanthe manglesii Lindl. in Edwards' Bot. Reg. (Ed. Lindl.) 20: t. 1703. 1834.
Cultivated.

Helipterum roseum Benth., Fl. austral. 3: 640. 1867; M.R. Almeida, Fl. Maharashtra 3A: 116. 2001.
Cultivated.

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Hemisteptia lyrata (Bunge) Bunge in Dorpater Jahrb. Litt. 1: 221. 1833; Hajra in Hajra et al. (Eds.), Fl. India 12: 181. 1995.
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Saussurea affinis Spreng. ex DC., Prodr. 6: 540. (1837) 1838; Hook. f., Fl. Brit. India 3: 373. 1881.
E N & NE India.

HETEROPAPPUS Less., Syn. gen. Compos. 189. 1832.

Heteropappus crenatifolius (Hand.-Mazz.) Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 152. 1964.
Aster crenatifolius Hand.-Mazz. in Acta Horti Gothob. 12: 217. 1938, p.p.
E Himalaya.

Heteropappus gouldii (C.E.C. Fisch.) Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 153. 1964.
Aster gouldii C. E.C. Fisch. in Bull. Misc. Inform. 1938: 286. 1938.
Himalayas.

Heteropappus holohermaphroditus Grierson in Notes Roy. Bot. Gard. Edinburgh 26: 155. 1964.
W Himalaya.

HIERACIUM L., Sp. pl. 799. 1753.

Hieracium echioides Lumn., Fl. poson. 348. 1791; R.R. Rao et al., Fl. ind. enum. -Asterac. 44. 1988.
W Himalaya.

Hieracium prenanthoides Vill., Prosp. Hist. pl. Dauphiné 35. 1779; Hook. f., Fl. Brit. India 3: 400. 1881.
W Himalaya.

Hieracium raui Aswal & Mehrotra in J. Econ. Taxon. Bot. 4: 1027. 1983.
Hieracium crocatum Fr., Symb. Hist. Hierac. 183. 1848 non Bunge ex Ledeb., 1846; Hook. f., Fl. Brit. India 3: 400. 1881.
W Himalaya.

Hieracium umbellatum L., Sp. pl. 804. 1753; Hook. f., Fl. Brit. India 3: 400. 1881.
var. **umbellatum**.
Alpine & subalpine Himalayas.

var. **lanceolatum** Hook. f., Fl. Brit. India 3: 400. 1881.
W Himalaya.

Hieracium virosum Pall., Reise russ. Reich. 1. 501. 1771; Hook. f., Fl. Brit. India 3: 400. 1881.
W Himalaya.

Hieracium vulgatum Fr., Fl. hall. sect. 7 – 10: 128. 1819 & Novit. fl. Svec. pt. 5: 76. 1819 & Novit. fl. suec. alt. 258. 1828; Hook. f., Fl. Brit. India 3: 399. 1881.
W Himalaya.

HIPPOLYTIA Poljakov in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 18: 288. 1957.

Hippolytia gossypina (Hook. f. & Thomson ex C.B. Clarke) C. Shih in Acta Phytotax. Sin. 17(4): 67. 1979; Grierson & Spring, in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1550. 2001.
Tanacetum gossypinum Hook. f. & Thomson ex C.B. Clarke, Compos. Ind. 154. 1876; Hook. f., Fl. Brit. India 3: 321. 1881.
C to E Himalaya.

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Homognaphalium pulvinatum (Delile) Fayed & Zarch in Willdenowia 18: 451. 1989.
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Throughout the plains of India.

HYPOCHAERIS L., Sp. pl. 810. 1753.

Hypochaeris glabra L., Sp. pl. 811. 1753; Hook. f., Fl. Brit. India 3: 401. 1881.
Nilgiris (introduced).

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N NE & S India, NW Himalaya.

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Ifloga spicata (Forssk.) Sch.Bip. in Webb & Berthel., Hist. nat. Iles Canaries sect. 2: 310. 1845; K.K. & S. Sharma, Fl. Rajasthan 146. 1989.
Chrysocoma spicata Forssk., Fl. aegypt.-arab. 73. 1775.
Ifloga fontanesii Cass. in F. Cuvier's Dict. sci. nat. ed 2. 23: 14. 1822; Hook. f., Fl. Brit. India 3: 277. 1881.
N India.

INULA L., Sp. pl. 881. 1753.

Inula acuminata Royle ex DC., Prodr. 5: 471. 1836; Hook. f., Fl. Brit. India 3: 294. 1881.
W Himalaya.

Inula barbata Wall. ex DC., Prodr. 5: 470. 1836.
Inula grandiflora Wall. ex DC., Prodr. 5: 470. 1836; Hook. f., Fl. Brit. India 3: 294. 1881.
W Himalaya.

Inula brittanica L., Sp. pl. 882. 1753; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 121. 1983.
Alpine W Himalaya.

Inula clarkei (Hook. f.) R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 753. 1972; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 395. 1984.
Inula obtusifolia var. *clarkei* Hook. f., Fl. Brit. India 3: 294. 1881.
NW Himalaya.

Inula falconeri Hook. f., Fl. Brit. India 3: 294.1881.
NW Himalaya.

Inula grantioides Boiss., Diagn. pl. orient. ser. 2, 3(1): 14. 1854; Hook. f., Fl. Brit. India 3: 296. 1881.
Gujarat (Kutch).

Inula graveolens Desf., Fl. atlant. 2: 275. 1799; Hook. f., Fl. Brit. India 3: 292. 1881.
NW Himalaya.

Inula grombczewskii C. Winkl. in Trudy Imp. S.-Peterburgsk. Bot. Sada 14: 149. 1895; R.R. Rao et al., Fl. ind. enum. -Asterac. 46. 1988.
NW Himalaya.

Inula hookeri C.B. Clarke, Compos. ind. 122. 1876; Hook. f., Fl. Brit. India 3: 294. 1881.
C to E Himalaya.

Inula kalapani C.B. Clarke, Compos. ind. 123. 1876; Hook. f., Fl. Brit. India 3: 295. 1881.
Meghalaya.

Inula obtusifolia A. Kern. in Ber. Naturwiss. -Med. Vereins Innsbruck 1: 111. (1870) 1871; Hook. f., Fl. Brit. India 3: 293. 1881.
W Himalaya.

Inula orientalis Lam., Encycl. 3: 255. 1789; Sarv.Kumar in Hajra et al., (Eds.), Fl. India 13: 20. 1995.
C to W Himalaya.

Inula racemosa Hook. f., Fl. Brit. India 3: 292. 1881.
W Himalaya.

Inula rhizocephala Schrenk in Fisch. & C.A. Mey., Enum. pl. nov. 1: 51. 1841; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 121. 1983.
var. **rhizocephala**.
Alpine Kashmir Himalaya.

var. **intermedia** Kitam., Fl. pl. W. Pakistan & Afghanistan 150. 1964; R.R. Rao et al., Fl. ind. enum.- Asterac. 46. 1988.
Alpine Kashmir Himalaya.

var. **rhizocephaloides** (C.B. Clarke) Kitam., Fl. pl. W. Pakistan & Afghanistan 155. 1964; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 220. 1983.
Inula rhizocephaloides C.B. Clarke, Compos. ind. 124. 1876; Hook. f., Fl. Brit. India 3: 295. 1881.
Alpine Kashmir Himalaya.

Inula royleana DC., Prodr. 5: 464. 1836; Hook. f., Fl. Brit. India 3: 292. 1881.
NW Himalaya.

Inula verrucosa Klatt in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München 1875: 80. 1875 & Sitzungsber. Kaiserl. Akad. Wiss., Math.-Naturwiss. Cl., Abt. 1, 8: 86. 1878; R.R. Rao et al., Fl. ind. enum.- Asterac. 46. 1988.
NW Himalaya.

Inula wissmanniana Hand.-Mazz. in Oesterr. Bot. Z. 2, 87: 127. 1938; H. Koyama in Acta Phytotax. Geobot. 35: 120. 1984.
Assam.

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Lactuca beauverdiana H. Lév. in Repert. Spec. Nov. Regni Veg. 8: 450. 1910.
Lactuca gracilis sensu Hook. f., Fl. Brit. India 3: 410. 1881 p.p. non Wall. ex DC., 1838.
Lactuca makinoana Kitam., Comp. nov. jap. 1: 26. 1931.
Ixeris makinoana (Kitam.) Kitam. in Bot. Mag. (Tokyo) 49: 284. 1935; Kitam. & S. Gould in H. Hara et al., Enum. fl. pl. Nepal 3: 31. 1982.
C to E Himalaya.

Ixeridium gracile (Wall. ex DC.) Pak & Kawano in Mem. Fac. Sci. Kyoto Univ., Biol. 15(1-2): 45. 1992.
Lactuca gracilis Wall. ex DC., Prodr. 7: 140. 1838; Hook. f., Fl. Brit. India 3: 410. 1881.
Ixeris gracilis (Wall. ex DC.) Stebbins in J. Bot. 75: 50. 1937; Lauener in Notes Roy. Bot. Gard. Edinburgh 34: 391. 1975.
var. **gracile.**
E Himalaya, E & NE India.

var. **khasiana** (C.B. Clarke ex Hook. f.) Karthik. & Moorthy comb. nov.
Lactuca gracilis var. *khasiana* C.B. Clarke ex Hook. f., Fl. Brit. India 3: 411. 1881.
Ixeris gracilis var. *khasiana* (C.B. Clarke ex Hook. f.) Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
NE India.

Ixeridium sagittarioides (C.B. Clarke) Pak & Kawano in Mem. Fac. Sci. Kyoto Univ., Biol. 15(1-2): 48. 1992.
Lactuca sagittarioides C.B. Clarke, Compos. ind. 265. 1876; Hook. f., Fl. Brit. India 3: 410. 1881.
Ixeris sagittarioides (C.B. Clarke) Stebbins in J. Bot. 75: 50. 1937; Babu in Bull. Bot. Surv. India 8: 200. 1966.
Himalayas.

IXERIS (Cass.) Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 25: 62. 1822.
Taraxacum subg. Ixeris Cass. in Bull. Sci. Soc. Philom. Paris 1821: 173. 1821.

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Lactuca polycephala (Cass.) Benth. in Benth. & Hook. f., Gen. pl. 2: 526. 1873; Hook. f., Fl. Brit. India 3: 410. 1881.
Himalayas, N & NE India.

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N India.

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NW Himalaya.

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NW Himalaya.

Doubtful species:
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NW Himalaya.

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Dolomiaea macrocephala Royle, Ill. bot. Himal. Mts. 251, t. 57. 1835.
Jurinea macrocephala (Royle) C.B. Clarke, Compos. ind. 237. 1876 non DC., 1838; Hook. f., Fl. Brit. India 3: 378. 1881.
Jurinea himalaica R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 757. 1972.
Jurinea dolomiaea Boiss., Fl. orient. suppl. 311. 1888.
var. **macrocephala.**
C to W Himalaya.

var. ***tibetica*** (R.R. Stewart) Karthik. & Moorthy comb. nov.
Jurinea himalaica var. *tibetica* R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 757. 1972; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 125. 1983.
Jurinea dolomiaea var. *tibetica* (R.R. Stewart) H.B. Naithani, Fl. pl. India, Nepal & Bhutan 230. 1990.
Alpine NW Himalaya.

KALIMERIS (Cass.) Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 37: 464, 491. 1825.
ASTER subg. KALIMERIS Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 24: 324. 1822.

Kalimeris indica (L.) Sch.Bip., Syst. Verz. 125. 1854; Hajra in Hajra et al. (Eds.), Fl. India 12: 130. 1995.
Aster indica L., Sp. pl. 876. 1753.
Boltonia indica (L.) Benth., Fl. Hongk. 174. 1861; Hook. f., Fl. Brit. India 3: 249. 1881*.
Manipur.
Note: * Hook.f., op. cit. reported this from Myanmar (Upper Burma) and commented '... so likely to occur in India proper, that it is best to retain it.'

KLEINIA Mill., Gard. dict. abr. ed. 4. 44. 1754.
NOTONIA DC. in Arch. Bot. (Paris) 2: 518. 1833.

Kleinia articulata Haw., Syn. pl. succ. 365. 1812; M.R. Almeida, Fl. Maharashtra 3A: 117. 2001.
Cultivated.

Kleinia balsamica (Dalzell & A. Gibson) P. Halliday in Kew Bull. 42: 442. 1987.
Notonia balsamica Dalzell & A. Gibson, Bombay fl. 133. 1861; Hook. f., Fl. Brit. India 3: 337. 1881.
NW Ghats.

Kleinia grandiflora (DC.) N. Rani in K.M. Matthew, Fl. Tamilnadu Carnatic 3: 801. 1983.
Notonia grandiflora DC. in Wight, Contr. bot. India 24. 1834 & Prodr. 6: 442. (1837) 1838; Hook. f., Fl. Brit. India 3: 337. 1881.
Notonia corymbosa DC., Prodr. 6: 442. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 484. 1841.
var. **grandiflora.**
Peninsular India.

var. **major** (Ramaswami) Uniyal in R.R. Rao et al., Fl. ind. enum.- Asterac. 47. 1988.
Notonia grandiflora var. *major* Ramaswami in Rec. Bot. Surv. India 6: 139. 1914.
Tamilnadu.

Kleinia shevaroyensis (Fyson) Uniyal in R.R. Rao et al., Fl. ind. enum.- Asterac. 47. 1988.
Notonia shevaroyensis Fyson in J. Indian Bot. Soc. 11: 49. 1932.
Tamilnadu (E Ghats).

Kleinia walkeri (C.B. Clarke) Uniyal in R.R. Rao et al., Fl. ind. enum.- Asterac. 48. 1988.
Gynura walkeri Wight, Icon. pl. Ind. orient. t. 1122. 1846.
Notonia walkeri (Wight) C.B. Clarke, Compos. ind. 176. 1876; Hook. f., Fl. Brit. India 3: 337. 1881.
Meghalaya, Nilgiris (Tamilnadu).

KOELPINIA Pall., Reise russ. Reich. 3: 755. 1776.

Koelpinia linearis Pall., Reise russ. Reich. 3: 755. 1776; Hook. f., Fl. Brit. India 3: 392. 1881.
Alpine & subalpine W Himalaya.

LACTUCA L., Sp. pl. 795. 1753.

Lactuca clarkei Hook. f., Fl. Brit. India 3: 406. 1881.
NW Himalaya.

Lactuca decipiens C.B. Clarke, Compos. ind. 266. 1876; Hook. f., Fl. Brit. India 3: 407. 1881; Arti Garg in Rheedea 16: 69. 2006.
var. **decipiens**.
Alpine & subalpine Himalayas.

var. **multifida** Hook. f., Fl. Brit. India 3: 407. 1881; Arti Garg in Rheedea 16: 70. 2006.
Himalayas.

Lactuca dissecta D. Don, Prodr. fl. nepal. 164. 1825; Hook. f., Fl. Brit. India 3: 405. 1881.
C & N India, Himalayas.

Lactuca dolichophylla Kitam. in H. Hara, Fl. E. Himal. 341. 1966; Kachroo et al., Fl. Ladakh 102. 1977.
Lactuca longifolia DC., Prodr. 7: 135. 1838 non Michx., 1803; Hook. f., Fl. Brit. India 3: 405. 1881.
Lactuca wallichiana Tuisl in Ann. Naturhist. Mus. Wien 72: 608. 1968.
E India, Himalayas.

Lactuca kashmiriana Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 83: 406,ff. 1-4. 1986.
NW Himalaya.

Lactuca lahulensis Mamgain & R.R. Rao in Bull. Bot. Surv. India 27: 120, ff. 1-4. (1985) 1987.
Himachal Pradesh.

Lactuca orientalis (Boiss.) Boiss., Fl. orient. 3: 819. 1875; Hook. f., Fl. Brit. India 3: 404. 1881.
Phenopus orientalis Boiss., Voy. bot. Espagne 390. 1838.
W Himalaya.

Lactuca pseudoumbrella D. Maity & Maiti in J. Econ. Taxon. Bot. 25: 748, f.1, A – H. (2001) 2002.
var. **pseudoumbrella.**
E Himalaya.

var. **chauhani** D. Maity & Maiti in J. Econ. Taxon. Bot. 25: 750. (2001) 2002.
Lactuca cooperi sensu Maiti et al. in Indian J. Forest. 22: 91. 1999 non J. Anthony, 1934.
E Himalaya.

Lactuca quercina L., Sp. pl. 795. 1753; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 126. 1983.
Alpine NW Himalaya.

Lactuca rostrata (Blume) Kuntze, Revis. gen. pl. 1: 349. 1891; H. Hara, Fl. E. Himal. 341. 1966.
Prenanthes rostrata Blume, Bijdr. 836. 1825.
Lactuca graciliflora sensu Hook. f., Fl. Brit. India 3. 406. 1881, p. p. non DC., 1838.
Himalayas, E & NE India.

Lactuca runcinata DC. in Wight, Contr. bot. Ind. 26. 1834; Mamgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 284. 1995.
Himalayas, N to Peninsular India.

Lactuca sativa L., Sp. pl. 795. 1753; Deb, Fl. Tripura 2: 223. 1983.
Lactuca scariola var. *sativa* (L.) Hook. f., Fl. Brit. India 3: 404. 1881.
Cultivated almost throughout India.

Lactuca serriola L., Cent. pl. II: 29. 1756; Raizada & H.O. Saxena, Fl. Mussoorie 1: 346. 1978.
Lactuca scariola L., Sp. pl. ed. 2. 1119. 1763; Hook. f., Fl. Brit. India 3: 404. 1881.
E & N India, W Himalaya (Cultivated elsewhere).

Lactuca sikkimensis (Hook. f.) Stebbins in Indian Forest Rec., Bot. 1 (6): 239. 1939.
Prenanthes sikkimensis Hook. f., Fl. Brit. India 3: 412. 1881.
Himalayas.

Lactuca squarrosa (Thunb.) Miq. in Ann. Mus. Bot. Lugduno-Batavum 2: 189. 1866; N.P. Balakr., Fl. Jowai 1: 256. 1981.
Prenanthes squarrosa Thunb., Fl. jap. 303. 1784.
Lactuca brevirostris Champ. ex Benth. in Hooker's J. Bot. Kew Gard. Misc. 4: 237. 1852; Hook. f., Fl. Brit. India 3: 405. 1881.
E Himalaya, NE India.

Lactuca tatarica (L.) C.A. Mey., Verz. Pfl. Casp. Meer. 56. 1831; Kachroo et al., Fl. Ladakh 102. 1977.
Lactuca tatarica var. *tibetica* Hook. f., Fl. Brit. India 3: 406. 1881.
Alpine & subalpine W Himalaya.

Lactuca undulata Ledeb., Fl. altaic. 4: 156. 1833; Hook. f., Fl. Brit. India 3: 404. 1881.
Alpine NW Himalaya.

Lactuca viminea (L.) J. & C. Presl, Fl. čech. 160. 1819; N.C. Nair, Fl. Bashahr Himal. 158. 1977.
Prenanthes viminea L., Sp. pl. 797. 1753.
W Himalaya.

Doubtful species:
Lactuca benthamii C.B. Clarke, Compos. ind. 273. 1876; Hook. f., Fl. Brit. India 3: 411. 1881.
NW Himalaya.

LAGASCEA Cav. in Anales Ci. Nat. 6: 331. 1803 ('LAGASCA')

Lagascea mollis Cav. in Anales Ci. Nat. 6: 332, t. 44. 1803; Hook. f., Fl. Brit. India 3: 302. 1881.
Weed.

LAGENOPHORA Cass. in Bull. Sci. Soc. Philom. Paris 1818: 34. 1818.

Lagenophora gracilis Steetz in Lehm., Pl. Preiss. 1: 431. 1845; Cabrera in Blumea 14:300.1966.
Lagenophora billardieri sensu Hook. f., Fl. Brit. India 3: 248. 1881, p.p. non Cass., 1818.

Lagenophora stipitata sensu Hajra in Hajra et al. (Eds.), Fl. India 12: 132. 1995 non (Labill.) Druce, 1917.
Maharashtra, Meghalaya.

LAGGERA Sch.Bip. ex K. Koch in Linnaea 19: 391. (1846) 1847.

Laggera alata (D. Don) Sch.Bip. ex Oliv. in Trans. Linn. Soc. London 29: 94. 1873; Hook. f., Fl. Brit. India 3: 271. 1881; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2 (3): 1506. 2001.
Erigeron alatum D. Don, Prodr. fl. nepal. 171. 1825.
Blumea alata (D. Don) DC., Prodr. 5: 448. 1836; Wight, Icon. pl. Ind. orient. t. 1101. 1846; K.K. & S. Sharma, Fl. Rajasthan 97. 1989.
Throughout India.

Laggera crispata (Vahl) Hepper & J.R.I. Wood in Kew Bull . 38: 83. 1983.
Conyza crispata Vahl, Symb. bot. 1: 71. 1790.
Blumea pterodonta DC., Prodr. 5: 448. 1836.
Laggera pterodonta (DC.) Sch.Bip. ex Oliv. & Hiern in Oliv., Fl. trop. Afr. 3: 324. 1877; Hook. f., Fl. Brit. India 3: 271. 1881.
Almost throughout India including Himalayas.

LAMPRACHAENIUM Benth. in Benth. & Hook. f., Gen. pl. 2: 225. 1873.

Lamprachaenium microcephalum (Dalzell) Benth. in Benth. & Hook . f., Gen. pl. 2: 226. 1873; Hook. f., Fl. Brit. India 3: 229. 1881.
Decaneurum microcephalum Dalzell in Hooker's J. Bot. Kew Gard.Misc. 3: 231. 1851.
Baccharoides microcephalum (Dalzell) M.R. Almeida in J. Bombay Nat. Hist. Soc. 100: 570. 2003.
W Chats.

LAPSANA L., Sp. pl. 811. 1753.

Lapsana communis L., Sp. pl. 811. 1753; Hook. f., Fl. Brit. India 3: 392. 1881.
NW Himalaya.

LASIOPOGON Cass. in Bull. Sci. Soc. Philom. Paris 1818: 75. 1818.

Lasiopogon muscoides (Desf.) DC., Prodr. 6: 246. (1837) 1838; Fayed & Zareh in Willdenowia 18: 447. 1989.
Gnaphalium muscoides Desf., Fl. atlant. 2: 267, t. 231. 1799.
Lasiopogon lanatum Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 25: 302. 1822; Hook. f., Fl. Brit. India 3: 287. 1881.
E & N India.

LAUNAEA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 25: 61, 321. 1822.
Launaea acaulis (Roxb.) Babc. ex Kerr in Craib, Fl. siam. 2: 299. 1936; Ramamoorthy in C.J. Saldanha & Nicolson (Eds.), Fl. Hassan dist. 620. 1976.
Prenanthes acaulis Roxb., Fl. ind. (Ed. Carey) 3: 403. 1832.
Lactuca glabra DC. in Wight, Contr. bot. India 26. 1834.
Youngia acaulis DC., Prodr. 7: 193. 1838 ; Anon., Kanha biosph. res. proj. doc. 8. 1989.
Microrhynchus glabra (DC.) Wight, Icon. pl. Ind. orient. t. 1145. 1846.
Crepis acaulis (Roxb.) Hook. f., Fl. Brit. India 3: 396. 1881.
Almost throughout India including Himalayas.

Launaea asplenifolia (Willd.) Hook. f., Fl. Brit. India 3: 415. 1881.
Prenanthes asplenifolia Willd., Sp. pl.3: 1540. 1803.
Almost throughout India including Himalayas.

Launaea capitata (Spreng.) Dandy in F.W. Andrews, Fl. pl. Sudan 3: 40. 1956; K.K. & S. Sharma, Fl. Rajasthan 151.1989.
Sonchus capitatus Spreng., Syst. veg. ed. 16. 3: 650. 1826.
Lomatolepis glomerata Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 48: 423. 1827.
Launaea glomerata (Cass.) Hook. f., Fl. Brit. India 3: 417. 1881.
Gujarat to N India.

Launaea intybacea (Jacq.) Beauverd in Bull. Soc. Bot. Geneve 2, 2: 114. 1910; C. Jeffrey in Kew Bull. 18: 472. 1966.
Lactuca intybacea Jacq., Icon. pl. rar. 1: 162. 1784.
Launaea runcinata DC. in Wight, Contr. bot. India 26. 1834.
Lactuca heyneana DC. in Wight, Contr. bot. India 26. 1834; Hook. f., Fl. Brit. India 3: 403. 1881.
Lactuca remotiflora DC. in Wight, Contr. bot. India 26. 1834; Hook. f., Fl. Brit. India 3: 403. 1881.
Brachyramphus heyneanus (DC.) Wight, Icon. pl. Ind. orient. t. 1146. 1846.
Launaea remotiflora (DC.) Stebbins in Indian Forest Rec. 1(6): 240. 1939.
In many parts of India.

Launaea microcephala Hook. f., Fl. Brit. India 3: 415. 1881.
NW Himalaya.

Launaea polyclada (Boiss.) Burkill, List fl. pl. Baluchistan 44. 1909; R.R. Stewart in Nasir & Ali (Eds.) Fl. W. Pakistan 763. 1972.
Zollikoferia polyclada Boiss., Fl. orient. 4: 827. 1879.
NW Himalaya.

Launaea resedifolia (L.) Druce in Bot . Exch. Club Soc. Brit. Isles 1913: 420. 1914; G.L. Shah, Fl. Gujarat 388. 1978.
Scorzonera resedifolia L., Sp. pl. 1198. 1753.
Zollikoferia chondrilloides DC., Prodr. 7: 183. 1838.
Launaea chondrilloides (DC.) Hook. f., Fl. Brit. India 3: 415. 1881.
C & N India, Gujarat.

Launaea sarmentosa (Willd.) Sch.Bip. ex Kuntze, Revis. gen. pl. 1: 350. 1891.
Prenanthes sarmentosa Willd., Phytographia 10, t. 6, f. 2. 1794.
Microrhynchus sarmentosus (Willd.) DC., Prodr. 7: 181. 1838; Wight, Icon. pl. Ind. orient. t. 133. 1850.
Launaea pinnatifida Cass. in Ann. Sci. Nat. (Paris) 23: 85. 1831; Hook. f., Fl. Brit. India 3: 416. 1881.
Andaman & Nicobar Islands, E & W Coasts, Rajasthan.

Launaea secunda (Royle ex C.B. Clarke) Hook. f., Fl. Brit. India 3: 416. 1881.
Microrhynchus secundus Royle ex C.B.Clarke, Compos. ind. 276. 1876.
C to W Himalaya, NW India.

LEIBNITZIA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 25: 420. 1822.

Leibnitzia anandria (L.) Turcz. in Schtscheglow, Ukaz. Otkryt. 8 (1, 3): 404. 1831; H.V. Hansen in Nord. J. Bot. 8: 68. 1988.
Tussilago anandria L., Sp. pl. 865. 1753.
Oreoseris pusilla DC., Prodr. 7: 17. 1838.
Gerbera anandria (L.) Sch.Bip. in Flora 27: 782. 1844.
Gerbera lanuginosa var. *pusilla* (DC.) Hook. f., Fl. Brit. India 3: 390. 1881.
Leibnitzia pusilla (DC.) S. Gould ex Kitam. & S. Gould in H. Hara et al., Enum. fl. pl. Nepal 3: 33. 1982.
C to W Himalaya.

Leibnitzia nepalensis (Kunze) Kitam. in J. Jap. Bot. 14: 297. 1938; H.V. Hansen in Nord. J. Bot. 8: 70. 1988.
Cleistanthium nepalense Kunze in Bot. Zeitung (Berlin) 9: 350. 1851.
Gerbera kunzeana A. Braun & Asch. in Cat. Sem. Hort. Berol. App. 3. 1671; Hook. f., Fl. Brit. India 3: 390. 1881.
Himalayas.

Leibnitzia ruficoma (Franch.) Kitam. in J. Jap. Bot. 14: 297. 1938; H.V. Hansen in Nord. J. Bot. 8: 71. 1988.
Gerbera ruficoma Franch. in J. Bot. (Morot) 2: 58. 1888.
E Himalaya.

LEONTOPODIUM (Pers.) R. Br., Observ. Compositae 124 (1817) 1818.
GNAPHALIUM sect. LEONTOPODIUM Pers., Syn. pl. 2: 422. 1806.

Leontopodium alpinum Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 25: 474. 1822; Hook. f., Fl. Brit. India 3: 279. 1881.
ssp. **alpinum**.
Alpine W Himalaya.

ssp. **nivale** (Ten.) Tutin in Bot. J. Linn. Soc. 67: 283. 1973; P.C. Pant in Hajra et al. (Eds.), Fl. India 13: 105. 1995.
Gnaphalium nivale Ten., Syll. pl. fl. neapol. 48. 1831.
Himalayas.

Leontopodium brachyactis Gand. in Bull. Soc. Bot. France 46: 420. 1900; R.R. Rao et al., Fl. ind. enum.-Asterac. 51. 1988.
Leontopodium alpinum sensu Hook. f., Fl. Brit. India 3: 279. 1881, p.p. non Cass., 1822.
Himalayas.

Leontopodium haastioides Hand.-Mazz. in Beih. Bot. Centralbl. 44 (2): 115. 1927; Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 34. 1982.
Antennaria muscoides sensu Hook. f., Fl. Brit. India 3: 278. 1881 non Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 100. 1876 p.p.
Leontopodium jacotianum var. *haastioides* (Hand.-Mazz.) R.C. Srivast. in Novon 8: 203. 1998.
C. to E Himalaya.

Leontopodium himalayanum DC., Prodr. 6: 275. (1837) 1838; M.A. Rau, High alt. fl. pl. W. Himal. 132. 1975.
Leontopodium alpinum sensu Hook. f., Fl. Brit. India 3: 279. 1881, p.p. non Cass., 1822.
Himalayas.

Leontopodium jacotianum Beauverd in Bull. Soc. Bot. Genève 1: 190, 873. 1909; G. Miehe in Bull. Brit. Mus. (Nat. Hist.), Bot. 16: 247. 1987.
Antennaria muscoides sensu Hook. f., Fl. Brit. India 3: 278. 1881, p.p. non Hook. f. & Thomson ex C.B. Clarke, 1876.
Himalayas.

Leontopodium leontopodinum (DC.) Hand.-Mazz. in Beih. Bot. Centralbl. 44 (2): 118. 1927; M.A. Rau, High alt. fl. pl. W. Himal. 132. 1975.
Antennaria leontopodina DC., Prodr. 6: 269. (1837) 1838.
Himalayas.

Leontopodium makianum Kitam. in Acta Phytotax. Geobot. 15: 78. 1953.
C Himalaya.

Leontopodium monocephalum Edgew. in Trans. Linn. Soc. London 20: 73. 1846; C. Miehe in Bull. Brit. Mus. ‹Nat. Hist.›, Bot. 16: 247. 1987.
Leontopodium alpinum sensu Hook. f., Fl. Brit. India 3: 279. 1881, p.p. non Cass., 1822.
Leontopodium fimbrilligerum J.R. Drumm. in Bull. Misc. Inform. 1910: 76. 1910.
Leontopodium evax Beauverd in Bull. Soc. Bot. Genève 1: 189. 1909.
Himalayas.

Leontopodium nanum (Hook. f. & Thomson ex C.B. Clarke) Hand.-Mazz. in Beih. Bot. Centralbl. 44 (2): 111. 1927; M.A. Rau, High alt. fl. pl. W. Himal. 132. 1975.
Antennaria nana Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 100. 1876; Hook. f., Fl. Brit. India 3: 278. 1881.
Himalayas.

Leontopodium paradoxum J.R. Drumm. in Bull. Misc. Inform. 1910: 77. 1910.
Leontopodium jacotianum var. *paradoxum* (J.R. Drumm.) Beauverd in Bull. Soc. Bot. Genève 4: 27. 1912.
Himalayas.

Leontopodium stracheyi (Hook . f.) C.B. Clarke ex Hemsl. in J. Linn. Soc., Bot. 30: 136. 1894; M.A. Rau, High alt. fl. pl. W. Himal. 132. 1975.
Leontopodium alpinum var. *stracheyi* Hook. f., Fl. Brit. India 3: 279. 1881.
C to E Himalaya.

LEUCANTHEMUM Mill., Gard. dict. ed. 4. 1754.

Leucanthemum vulgare Lam., Fl. franç. 2: 137. 1779; B.D. Naithani in Hajra et al., (Eds.), Fl. India 12: 55. 1995.
Chrysanthemum leucanthemum L., Sp. pl. 888. 1753.
Cultivated.

LIGULARIA Cass. in Bull. Sci. Soc. Philom. Paris 1816: 198. 1816 nom. cons.

Ligularia amplexicaulis DC., Prodr. 6: 314. (1837) 1838; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1574. 2001.
Senecio amplexicaulis (DC.) C.B. Clarke, Compos. ind. 204. 1876 non Kunth, 1820; Hook. f., Fl. Brit. India 3: 348. 1881.
Senecio yakla C.B. Clarke, Compos. ind. 204. 1876; W. W. Sm. in Rec. Bot. Surv. India 4 (7): 384. 1913.
Himalayas.

Ligularia atkinsonii (C.B. Clarke) S.W. Liu in Acta Biol. Plateau Sin. 7: 31. (1987) 1988; Grierson & Spring. in Grierson & D.C. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1576. 2001.
Senecio atkinsonii C.B. Clarke, Compos. ind. 207. 1876.
Senecio ligularia Hook. f. var. *atkinsonii* (C.B. Clarke) Hook. f., Fl. Brit. India 3: 350. 1881.
E Himalaya.

Ligularia dux (C.B. Clarke) R. Mathur in R.R. Rao et al., Fl. ind. enum.- Asterac. 53. 1988.
Senecio dux C.B. Clarke in J. Linn. Soc., Bot. 25: 48. 1889.
E Himalaya.

Ligularia fischeri (Ledeb.) Turcz. in Bull. Soc. Imp. Naturalistes Moscou (Cat. pl. baic. Dahur.) 11(1): 11. 1838; R.R. Rao et al., Fl. ind. enum.- Asterac. 53. 1988.
Cineraria fischeri Ledeb., Index Sem. Hort. Dorp. 17. 1820.
E Himalaya.

Ligularia hookeri (C.B. Clarke) Hand.-Mazz. in Bot. Jahrb. Syst. 69: 127. 1938; R.R. Rao et al., Fl. ind. enum.- Asterac. 53. 1988.
Cremanthodium hookeri C.B. Clarke, Compos. ind. 169. 1876; Hook. f., Fl. Brit. India 3: 331. 1881.
ssp. **hookeri**.
var. **hookeri**.
E Himalaya.

var. **polycephala** (R.D. Good) Hand.-Mazz. in Bot. Jahrb. Syst. 69: 127. 1938.
Cremanthodium hookeri ssp. *polycephalum* R.D. Good in J. Linn. Soc., Bot. 48: 322. 1929.
Senecio cutthaefolius Hook. f., Fl. Brit. India 3: 350. 1881 non Maxim., 1871.
Senecio fluvialis N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 61. 1970.
Cremanthodium hookeri ssp. *polycephalum* forma *regulare* R.D. Good in J. Linn. Soc., Bot. 48: 280. 1929.
Himalayas.

ssp. **clarkei** (R.D. Good) R. Mathur in Hajra et al. (Eds.), Fl. India 13: 231. 1995*.
Cremanthodium hookeri ssp. *clarkei* R.D. Good in J. Linn. Soc., Bot. 48: 280. 1929.
Note: * Though, R. Mathur, op. cit., indicates that this subspecies was published in R.R. Rao et al., Fl. ind. enum.- Asterac. 53. 1988, it was not published in that work.
forma **clarkei**.
Himalayas.

forma **angustiligulatum** (R.D. Good) R. Mathur in Hajra et al. (Eds.), Fl. India 13: 231. 1995.
Cremanthodium hookeri ssp. *clarkei* forma *angustiligulatum* R.D. Good in J. Linn. Soc., Bot. 48: 280. 1929.
E Himalaya.

Ligularia jacquemontiana (Decne.) M.A. Rau, High alt. fl. pl. W. Himal. 134. 1975.
Senecillis jacquemontianus Decne. in Jacquem., Voy. Inde 4: 90, t. 98. 1844.
Senecio jacquemontianus (Decne.) Benth. in Benth. & Hook. f., Gen. pl. 2: 449. 1873; Hook. f., Fl. Brit. India 3: 350. 1881.
W Himalaya.

Ligularia japonica (Thunb.) Less., Syn. gen. Compos. 390. 1832; R.R. Rao et al., Fl. ind. enum.- Asterac. 53. 1988.
Arnica japonica Thunb., Fl. jap. 319. 1784.
Senecio macranthus C.B. Clarke, Compos. ind. 205. 1876; Hook. f., Fl. Brit. India 3: 349. 1881.
Meghalaya.

Ligularia kingiana (W.W. Sm.) Hand-Mazz. in J. Bot. 76: 289. 1938.
Senecio kingianus W.W. Sm. in J. & Proc. Asiatic. Soc. Bengal 7: 71. 1911.
E Himalaya.

Ligularia lancifera (J.R. Drumm.) R.C. Srivast. & C. Jeffrey in J. Bombay Nat. Hist. Soc. 93: 318. 1996.
Senecio lancifer J.R. Drumm. in Bull. Misc. Inform. 1911: 270. 1911.
C to E Himalaya.

Ligularia latiligulata (R.D. Good) Spring. in Edinburgh J. Bot. 57: 402,f. 2 a – f. 2000.
Cremanthodium hookeri forma *latiligulatum* R.D. Good in J. Linn. Soc., Bot. 48: 280. 1929.
Ligularia hookeri ssp. *clarkei* forma *latiligulata* (R.D. Good) R. Mathur in R.R. Rao et al., Fl. ind. enum.- Asterac. 53. 1988.
C to E Himalaya.

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C Himalaya.

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Senecio mortonii C.B. Clarke, Compos. ind. 208. 1876; Hook. f., Fl. Brit. India 3: 349. 1881.
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E Himalaya.

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Senecio pachycarpus C.B. Clarke ex Hook. f., Fl. Brit. India 3: 349. 1881.
E Himalaya.

Ligularia retusa DC., Prodr. 6: 314. (1837) 1838.
Senecio retusus (DC.) C.B. Clarke, Compos. ind. 206. 1876; Hook. f., Fl. Brit. India 3: 350. 1881.
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C & E Himalaya, NE India.

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Cineraria sibirica L., Sp. pl. ed. 2. 1242. 1763.
Senecio ligularia Hook. f., Fl. Brit. India 3: 349. 1881.
var. **sibirica**.
Temperate & subalpine Himalayas.

var. racemosa (DC.) Kitam. in H. Kihara (Ed.), Fauna & fl. Nepal Himal. 1: 266. 1955; M.A. Rau, High alt. fl. pl. W. Himal. 134. 1975.
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W Himalaya.

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Himalayas.

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Arnica tussilaginea Burm. f., Fl. indica 182. 1768.
Cultivated.

Ligularia virgaurea (Maxim.) Mattf. ex Rehder & Kobuski in J. Arnold Arbor. 14: 40. 1933; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 35. 1982.
Senecio virgaurea Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg 27: 484. 1881.
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C to E Himalaya.

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E Himalaya.

Note: The ssp. *clarkei* was published in 1995; but the combination for the forma *angustifolium* under that subspecies was published earlier i.e., in 1988. As the combination is invalid it is excluded.

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Saussurea ceratocarpa Decne. in Jacquem., Voy. Inde 4: 93, t. 101. 1844; R.R. Rao et al., Fl. ind. enum. -Asterac. 62. 1988.
Jurinea ceratocarpa (Decne.) Benth. in Benth. & Hook. f., Gen. pl. 2: 474. 1873; Hook. f., Fl. Brit. India 3: 378. 1881.
var. **ceratocarpa**.
Alpine Himalayas.

var. **depressa** (C.B. Clarke ex Hook. f.) Karthik. & Moorthy comb. nov.
Jurinea ceratocarpa var. *depressa* C.B. Clarke ex Hook. f., Fl. Brit. India 3: 378. 1881.
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W Himalaya.

LOGFIA Cass. in Bull. Sci. Soc. Philom. Paris 1819: 143. 1819.

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Filago arvensis L., Sp. pl. 1312. 1753; Hook. f., Fl. Brit. India 3: 277. 1881.
Alpine W Himalaya, NW India.

MATRICARIA L., Sp. pl. 890. 1753.

Matricaria decipiens K. Koch in Index Sem. (Berlin) App. 14. 1855; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 766. 1972.
NW Himalaya.

Matricaria disciformis (C.A. Mey.) DC., Prodr. 6: 51. (1837) 1838; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 766. 1972.
Chrysanthemum disciforme C. A. Mey., Verz. Pfl. Casp. Meer. 75. 1831.
NW Himalaya.

Matricaria parviflora (Willd.) Poir. in Lam., Encycl. suppl. 3: 608. 1814.
Pyrethrum parviflorum Willd., Sp. pl. 3: 2158. 1803.
Matricaria praecox DC., Prodr. 6: 52. (1837) 1838; Hook. f., Fl. Brit. India 3: 316. 1881.
NW India.

Matricaria recutita L., Sp. pl. 891. 1753; B.D. Naithani in Hajra et al., (Eds.), Fl. India 12: 56. 1995.
Matricaria chamomilla L., Sp. pl. 891. 1753; Hook. f., Fl. Brit. India 3: 315. 1881.
N India, W Himalaya.

MELAMPODIUM L., Sp. pl. 921. 1753.

Melampodium paludosum Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 215 & (ed. quarto) 273. 1820; T. Cooke, Fl. Bombay 2: 124. 1967 (Repr.).
Cultivated.

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Microglossa pyrifolia (Lam.) Kuntze, Revis. gen. pl. 1: 353. 1891; Kanjilal et al., Fl. Assam 3: 109. 1939.
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Microglossa volubilis DC., Prodr. 5: 320. 1836; Hook. f., Fl. Brit. India 3: 257. 1881.
E Himalaya, NE India.

MIKANIA Willd., Sp. pl. 3: 1742. 1803 nom. cons.

Mikania cordata (Burm.f.) B.L. Rob. in Contr. Gray Herb. 104: 65. 1934; J. Kost. in Blumea 1: 503. 1935.
Eupatorium cordatum Burm. f., Fl. indica 176, t. 58, f. 2. 1768.
Mikania scandens sensu Hook. f., Fl. Brit. India 3: 244. 1881 non (L.) Willd.,1803.
Andaman & Nicobar Islands, NE India.

Mikania micrantha Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. 4 (ed. folio): 105 & (ed. quarto)134. 1820; R.R. Rao & Razi, Syn. fl. Mysore dist. 547. 1981.
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Weed.

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Montanoa bipinnatifida (Kunth) K. Koch in Wochenschr. Vereines Beförd. Gartenbaues Königl. Preuss. Staaten 7: 406. 1864; V. Chandras. in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 44. 1987.
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Naturalised.

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SW Ghats (Kerala, Tamilnadu).

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Tamilnadu (Nilgiris & Pulneys).

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Mulgedium bracteatum (Hook. f. & Thomson ex C.B. Clarke) C. Shih in Acta Phytotax. Sin. 26: 390. 1988.
Lactuca bracteata Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 270. 1876; Hook. f., Fl. Brit. India 3: 409. 1881.
E Himalaya, NE India.

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Cicerbita lessertiana (Wall. ex DC.) Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
Lactuca lessertiana (Wall. ex DC.) C.B. Clarke, Compos. ind. 270. 1876; Hook. f., Fl. Brit. India 3: 408. 1881.
ssp. **lessertianum**.
Himalayas, Punjab.

ssp.**dentatum** (DC.) Karthik. & Moorthy comb. nov.
Mulgedium lessertianum var. *dentatum* DC., Prodr. 7: 251. 1838.

Cicerbita lessertiana ssp. *dentata* (DC.) Mamgain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
NW Himalaya.

ssp. **lyratum** (Decne.) Karthik. & Moorthy comb. nov.
Melanoseris lyrata Decne. in Jacquem., Voy. Inde 4: 101, t. 109. 1844.
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Alpine W Himalaya.

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Lactuca rapunculoides (DC.) C.B. Clarke, Compos. ind. 268. 1876; Hook. f., Fl. Brit. India 3: 407. 1881.
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C to W Himalaya, C E & W India.

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NE India.

Myriactis javanica (Blume) DC., Prodr. 5: 308. 1836; Deva, Wadhwa & R. Mathur in Indian J. Forest. 4: 26. 1981.
Bellis javanica Blume, Bijdr. 917. 1826.
Myriactis wightii sensu Hook. f., Fl. Brit. India 3: 247. 1881 p.p. non DC., 1834.
W Himalaya.

Myriactis nepalensis Less. in Linnaea 6: 128, t. 2. 1831; Hook. f., Fl. Brit. India 3: 247. 1881.
NE India, Temperate Himalayas.

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N India, Temperate Himalayas.

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var. **wightii.**
Nilgiris.

var. **bellidioides** Hook. f., Fl. Brit. India 3: 247. 1881.
Nilgiris.

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Doronicum hookeri C.B. Clarke ex Hook. f., Fl. Brit. India 3: 332. 1881.
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Alpine E Himalaya.

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C Himalaya.

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W Himalaya.
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SERRATULA sect. OLIGOCHAETA DC., Prodr. 6: 671. (1837) 1838.

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Carduus ramosus Roxb., Fl. ind. (Ed. Carey) 3: 407. 1832.
Microlonchus divaricatus DC., Prodr. 6: 562. (1837) 1838.
Volutarella divaricata (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 476. 1873 excl. syns. *Centaurea patula* DC. & *Serratula divaricata* Fisch. & C.A. Mey.: Hook. f., Fl. Brit. India 3: 383. 1881.
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Volutarella ramosa (Roxb.) Santapau, Pl. Saurashtra 22. 1953.
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Almost throughout the plains of India.

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Himalayas.

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NW Himalaya.

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Throughout India.

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Himalayas.

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E Himalaya.

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W Himalaya.

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Prenanthes quinquelobus Wall. ex DC., Prodr. 6: 195. (1837) 1838.
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Temperate Himalayas.

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Weed throughout India.

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C E N & Peninsular India.

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var. indicum.
Throughout India.

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Andhra pradesh.

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Drier parts of India including Himalayas.

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Rajasthan.

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Arunachal Pradesh.

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W Himalaya.

Phagnalon darvazicum Krasch. in Trudy Bot. Inst. Akad. Nauk SSSR ser.1, Fl. Sist. Vyss. Rast. 3: 343. 1936; P.C. Pant in Hajra et al. (Eds.), Fl. India 13: 112. 1995.
W Himalaya.

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W Himalaya.

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Throughout India.

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Centratherum reticulatum (Wight) Benth. in Benth. & Hook. f., Gen. pl. 2: 225. 1873; Hook. f., Fl. Brit. India 3: 227. 1881.
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Baccharoides indicum (Less.) Punekar & Vasudeva Rao in J. Econ. Taxon. Bot. 29: 515. (2005) 2006.
Tamilnadu (Nilgiri & Pulney Hills).

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Decaneurum lilacinum Dalzell & A. Gibson, Bombay fl. 314. 1861.
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Peninsular India.

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Centratherum mayurii C.E.C. Fisch. in Bull. Misc. Inform. 1940: 45. 1940.
Baccharoides mayurii (C.E.C. Fisch.) Punekar & Vasudeva Rao in J. Econ. Taxon. Bot. 29: 516. (2005) 2006.
Karnataka.

Phyllocephalum phyllolaenum (DC.) Narayana in Curr. Sci. 51: 438. 1982.
Decaneurum phyllolaenum DC., Prodr. 7: 264. 1838.
Centratherum phyllolaenum (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 225. 1873; Hook. f., Fl. Brit. India 3: 228. 1881.
N & Peninsular India.

Phyllocephalum rangacharii (Gamble) Narayana in Curr. Sci. 51: 438. 1982.
Centratherum rangacharii Gamble in Bull. Misc. Inform. 1920: 338. 1920 (Fl. Madras 2: 469. 1967. Repr.).
Baccharoides rangacharii (Gamble) Punekar & Vasudeva Rao in J. Econ. Taxon. Bot. 29: 516. (2005) 2006.
var. rangacharii.
SW Ghats (Tamilnadu).

var. agastyamalayanum Geetha Kum., E.S.S. Kumar & Pandur. in Indian J. Forest. 31: 119. 2008.
SW Ghats (Kerala).

Phyllocephalum ritchiei (Hook. f.) Narayana in Curr. Sci. 51: 438. 1982.
Centratherum ritchiei Hook. f., Fl. Brit. India 3: 228. 1881.
Centratherum metzianum Sch.Bip. ex Hook. f., Fl. Brit. India 3: 228. 1881*.
Baccharoides ritchiei (Hook. f.) M.R. Almeida, Fl. Maharashtra 3A: 73. 2001.
Karnataka, Maharashtra.
Note: * Hook. f., op. cit. treated this as 'imperfectly known species'

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Decaneurum scabridum DC. in Wight, Contr. bot. India 7. 1834.
Decaneurum molle DC., Prodr. 5: 67. 1836.

Centratherum molle (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 225. 1873; Hook. f., Fl. Brit. India 3: 227. 1881.
Centratherum hookeri C.B. Clarke, Compos. ind. 3. 1876; Hook. f., Fl. Brit. India 3: 228. 1881.
Phyllocephalum hookeri (C.B. Clarke) Uniyal in Hajra et al. (Eds.), Fl. India 13: 339. 1995.
Baccharoides hookeri (C.B. Clarke) M.R. Almeida, Fl. Maharashtra 3A: 72. 2001.
Baccharoides scabridum (DC.) M.R. Almeida, Fl. Maharashtra 3A: 73. 2001.
Peninsular India.

Phyllocephalum sengaltherianum (Narayana) Narayana in Curr. Sci. 51: 438. 1982.
Centratherum sengaltherianum Narayana in Curr. Sci. 50: 279. 1981.
Baccharoides sengaltherianum (Narayana) Punekar & Vasudeva Rao in J. Econ. Taxon. Bot. 29: 516 (2005) 2006.
Tamilnadu (Tirunelveli - SW Ghats).

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Note: *S.R. Paul & S.L. Kapoor have not indicated precise locality in India; they cite the type of the species is from Java.

PICRIS L., Sp. pl. 792. 1753.

Picris hieracioides L., Sp. pl. 792. 1753; Wight, Icon. pl. Ind. orient. t. 1143. 1846; Hook. f., Fl. Brit. India 3: 393. 1881.
ssp. **hieracioides**.
Himalayas, NE India, Nilgiris.

ssp. **kaimaensis** Kitam. in Acta Phytotax. Geobot. 8: 127. 1939; N.C. Nair, Fl. Bashahr Himal. 159. 1977.
Himalayas, NE India.

ssp. **nuristanica** Kitam. in Acta Phytotax. Geobot. 27: 37. 1957; Mamgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 236. 1995.
Kashmir Himalaya.

PILOSELLOIDES (Less.) C. Jeffrey ex Cufod. in Bull. Jard. Bot. État. 37 (suppl.): 1180. 1967.
Gerbera sect. Piloselloides Less. in Linnaea 5: 296. 1830.

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Arnica hirsuta Forssk., Fl. aegypt-arab. 151. 1775.
Arnica piloselloides L., Pl. rar. afr. 22. 1760.
Gerbera piloselloides (L.) Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 18: 461. 1825; Hook. f., Fl. Brit. India 3: 389. 1881.
E Himalaya, NE India.

PLUCHEA Cass. in Bull. Sci. Soc. Philom. Paris 1817: 31. 1817.

Pluchea arguta Boiss., Diagn. pl. orient. ser. 2, 3(2): 5. 1856; Hook. f., Fl. Brit. India 3: 273. 1881.
N to W India.

Pluchea indica (L.) Less. in Linnaea 6: 150. 1831; Hook. f., Fl. Brit. India 3: 272. 1881.
Baccharis indica L., Sp. pl. 861. 1753.
Andaman & Nicobar Islands, E India.

Pluchea lanceolata (DC.) C.B. Clarke, Compos. ind. 94. 1876; Hook. f., Fl. Brit. India 3: 272. 1881.
Berthelotia lanceolata DC., Prodr. 5: 376. 1836.
N to W India.

Pluchea linearifolia C.B. Clarke, Compos. ind. 95. 1876; Hook. f., Fl. Brit. India 3: 273. 1881.
NE India.

Pluchea ovalis DC., Prodr. 5: 450. 1836; Hook. f., Fl. Brit. India 3: 272. 1881.
NW India.

Pluchea paniculata (Willd.) Karthik. & Moorthy comb. nov.
Conyza paniculata Willd., Sp. pl. 3: 1920. 1803.
Blumea senecioides DC., Prodr. 5: 440. 1836.
Pluchea senecioides (DC.) W. Theob. in Mason, Burmah ed 4. (rev. & enl. W. Theob.) 2: 380. 1883; Mabb. in Taxon 34: 152. 1985.
Blumea membranacea DC., Prodr. 5: 440. 1836; Hook. f., Fl. Brit. India 3: 265. 1881.
Blumea paniculata (Willd.) M.R. Almeida, Fl. Maharashtra 3A: 83. 2001.
var. **paniculata.**
Throughout India.

var. **gardneri** (Hook . f.) Karthik. & Moorthy comb. nov.
Blumea membranacea var. *gardneri* Hook. f., Fl. Brit. India 3: 265. 1881.
SW Ghats (Kerala, Tamilnadu - Nilgiris).

var. **gracilis** (DC.) Karthik. & Moorthy comb. nov.
Blumea membranacea var. *gracilis* (DC.) Hook. f., Fl. Brit. India 3: 265. 1881.
Blumea paniculata var. *gracilis* M.R. Almeida, Fl. Maharashtra 3A: 83. 2001.
S. India.

var. **jacquemontii** (Hook. f.) Karthik. & Moorthy comb. nov.
Blumea jacquemontii Hook. f., Fl. Brit. India 3: 265. 1881.
Blumea membranacea var. *jacquemontii* (Hook.f.) Randeria in Blumea 10: 271. 1960.
Blumea kingii C.B. Clarke ex Hook. f., Fl. Brit. India 3: 265. 1881.
Almost throughout India.
Note: Basionym cited for *Blumea paniculata* var. *jacquemontii* by M.R. Almeida, Fl. Maharashtra 3A: 83. 2001 was erroneous.

var. **muralis** (DC.) Karthik. & Moorthy comb . nov.
Blumea muralis DC., Prodr. 5: 440. 1836.
Blumea membranacea var. *muralis* (DC.) Hook. f., Fl. Brit. India 3: 265. 1881.
E & W India.
Note: Basionym cited for *Blumea paniculata* var. *muralis* by M.R. Almeida, Fl. Maharashtra 3A: 84. 2001 was erroneous.

var. **subsimplex** (DC.) Karthik. & Moorthy comb. nov.
Blumea subsimplex DC., Prodr. 5: 441. 1836.
Blumea membranacea var. *subsimplex* (DC.) Hook. f., Fl. Brit. India 3: 265. 1881.
Throughout India.

Pluchea tomentosa DC. in Wight, Contr. bot. India 16. 1834; Hook. f., Fl. Brit. India 3: 272. 1881.
Almost throughout India.

Pluchea wallichiana DC., Prodr. 5: 451. 1836; Hook. f., Fl. Brit. India 3: 272. 1881.
N to S through W India.

PRENANTHES L., Sp. pl. 797. 1753.

Prenanthes brunoniana Wall. ex DC., Prodr. 7: 195. 1838; Hook. f., Fl. Brit. India 3: 411. 1881.
Lactuca brunoniana (Wall. ex DC.) C.B. Clarke, Compos. ind. 266. 1876.
Himalayas.

Prenanthes hookeri C.B. Clarke ex Hook. f., Fl. Brit. India 3: 412. 1881.
E Himalaya, NE India.

Prenanthes khasiana C.B. Clarke, Compos. ind. 273. 1876; Hook. f., Fl. Brit. India 3: 411. 1881.
Meghalaya.

Prenanthes scandens Hook. f & Thomson ex C.B. Clarke, Compos. ind. 274. 1876; Hook. f., Fl. Brit. India 3: 413. 1881.
E Himalaya, NE India.

Prenanthes yakoensis C. Jeffrey in Notes Roy. Bot. Gard. Edinburgh 5: 203. 1912; C.E.C. Fisch. in Bull. Misc. Inform. 1934: 92. 1934.
NE India.

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Pseudelephantopus spicatus (Juss. ex Aubl.) Rohr ex Gleason in Bull. New York Bot. Gard. 4: 242. 1906 & in Britton, N. Amer. fl. 33: 109. 1922; N.M. Dutta & D. Mitra in Indian Forester 87: 308. 1961.
Elephantopus spicatus Juss. ex Aubl., Hist. pl. Guiane 2: 808. 1775.
E & N India.

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Pseudoconyza viscosa (Mill.) d'Arcy in Phytologia 25: 281. 1973; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2 (3): 1506. 2001.
Conyza viscosa Mill., Gard. dict. ed. 8, no. 8. 1768.
Conyza aurita L.f., Suppl. pl. 367. 1782.
Blumea aurita (L.f.) DC. in Wight, Contr. bot. India 16. 1834; K.K. & S. Sharma, Fl. Rajasthan 98. 1989
Laggera aurita (L.f.) Benth. ex C.B. Clarke, Compos. ind. 92. 1876; Hook. f., Fl. Brit. India 3: 271. 1881.
Blumea obliqua var. *aurita* (L.f.) Naik & Bhog. in Acta Bot. Ind. 20: 49. 1992.
Plains of India.

PSEUDOGNAPHALIUM Kirp. in Trudy Bot. Inst. Akad. Nauk SSSR, ser. 1, Fl. Sist. Vyš. Rast. 9: 33. 1950.

Pseudognaphalium affine (D. Don) Anderb. in Opera Bot. 104: 146. 1991; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2 (3): 1522. 2001.
Gnaphalium affine D. Don, Prodr. fl. nepal. 173. 1825; N.C. Nair, Fl. Bashahr Himal. 153. 1977.
Gnaphalium multiceps DC., Prodr. 6. 222. (1837) 1838.
Gnaphalium luteo album sensu Hook. f., Fl. Brit. India 3: 288. 1881, p.p. non L., 1753.
Gnaphalium luteo-album var. *multiceps* (DC.) Hook. f., Fl. Brit. India 3: 288. 1881.
Gnaphalium luteo-album ssp. *affine* (D. Don) J. Kost. in Blumea 4: 484. 1941.
Pseudognaphalium luteo-album ssp. *affine* (D. Don) Hilliard & B.L. Burtt in Bot. J. Linn. Soc. 82: 206. 1981.
Himalayas, NE India.

Pseudognaphalium hypoleucum (DC.) Hilliard & B.L. Burtt in Bot. J. Linn. Soc. 82: 205. 1981.
Gnaphalium hypoleucum DC. in Wight, Contr. bot. India 21. 1834; Wight, Icon. pl. Ind. orient. t. 1114. 1848; Hook. f., Fl. Brit. India 3: 288. 1881.
N & NE India, Tamilnadu (Nilgiris), Temperate Himalayas.

Pseudognaphalium luteo-album (L.) Hilliard & B.L. Burtt in Bot. J. Linn. Soc. 82: 206. 1981.
Gnaphalium luteo album L., Sp. pl. 851. 1753; Hook. f., Fl. Brit. India 3: 288. 1881.
var. **luteo-album.**
Throughout India.

var. **pallidum** (Lam.) Karthik. & Moorthy comb. nov.
Gnaphalium pallidum Lam., Dict. encycl. 2: 750. 1790.
Gnaphalium luteo-album var. *pallidum* (Lam.) Hook. f., Fl. Brit. India 3: 288. 1881.
Gnaphalium luteo-album ssp. *pallidum* (Lam.) Maheshw. in J. Bombay Nat. Hist. Soc. 57: 377. 1960.
E, N & S India.

PSIADIA Jacq., Pl. hort. schoenbr. 2: 13, t. 152. 1797.

Psiadia ceylanica (Arn.) Grierson in Ceylon J. Sci., Biol. Sci. 10: 52. 1972; V. Chandras. in A.N. Henry et al. (Eds.), Fl. Tamilnadu anal. 2: 46. 1987.
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Microglossa ceylanica (Arn.) Benth. in Benth. & Hook.f., Gen. pl. 2: 282. 1873 ('zeylanica'); Hook. f., Fl. Brit. India 3: 257. 1881.
var. **ceylanica.**
SW Ghats (Kerala, Tamilnadu).

var. **beddomei** (Gamble) Vajr. & P. Daniel in J. Econ. Taxon. Bot. 3: 675. 1982.
Microglossa ceylanica var. *beddomei* Gamble, Fl. Madras 681. 1921 (2: 479. 1967, Repr.).
SW Ghats (Kerala, Tamilnadu).

PSYCHROGETON Boiss., Fl. orient. 3: 156. 1875.

Psychrogeton andryaloides (DC.) Novopokr. ex Krasch. in Trudy Bot. Inst. Akad. Nauk SSSR ser. 1, Fl. Sist. Vyss. Rast. 3: 343. 1937 in obs.; Grierson in Notes Roy. Bot. Gard. Edinburgh 27: 114. 1967.
Conyza andryaloides DC., Prodr. 5: 377. 1836.
Erigeron andryaloides (DC.) Benth. ex C.B. Clarke, Compos. ind. 52. 1876; Hook. f., Fl. Brit. India 3: 255. 1881.
var. **andryaloides.**
Alpine W Himalaya.

var. **denudatus** (Botsch.) Grierson in Notes Roy. Bot. Gard. Edinburgh 27: 115. 1967.
Erigeron poncinsii var. *denudatus* Botsch. in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 6. 1959.
Alpine W Himalaya.

var. **poncinsii** (Franch.) Grierson in Notes Roy. Bot. Gard. Edinburgh 27: 115. 1967; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 121. 1983.
Aster poncinsii Franch. in Bull. Mus. Hist. Nat. (Paris) 2: 345. 1896.
Erigeron poncinsii (Franch.) Botsch. in Bot. J. URSS 42: 776. 1957.
Alpine W Himalaya.

PTEROCAULON Elliott, Sketch bot. S. Carolina 2: 323. 1823.

Pterocaulon redolens (Willd.) Fern.-Vill., Nov. app. ed. 3. 4(3): 116. 1880; Sarv. Kumar in Hajra et al. (Eds.), Fl. India 13: 158. 1995.
Conyza redolens Willd., Sp. pl. 3: 1951. 1803.
Pterocaulon cylindrostachyum C.B. Clarke, Compos. ind. 98. 1876; *Hook. f., Fl. Brit. India 3. 275. 1881.
Orissa.
Note: *Hook.f., op. cit. reported this species from Myanmar (Burma) and E. Peninsula.

PTEROCYPSELA C. Shih in Acta Phytotax. Sin. 26: 385. 1988.

Pterocypsela indica (L.) C. Shih in Acta Phytotax. Sin. 26: 387. 1988.
Lactuca indica L., Mant. pl. 2: 278. 1771; Lauener in Notes Roy. Bot. Gard. Edinburgh 34: 394. 1975.
E Himalaya, NE India.

PULICARIA Gaertn., Fruct. sem. pl. 2: 461. 1791.
FRANCOEURIA Cass. in F. Cuvier's Dict. sci. nat. ed. 2. 34: 44. 1825.

Pulicaria angustifolia DC., Prodr. 5: 479. 1836; Hook. f., Fl. Brit. India 3: 299. 1881.
Almost throughout India.

Pulicaria boissieri Hook. f., Fl. Brit. India 3: 300. 1881*; K.K. & S. Sharma, Fl. Rajasthan 165. 1989.
Rajasthan.
Note: Hook.f., op. cit. reported this species from ('Scind') Sind.

Pulicaria dysenterica (L.) Gaertn., Fruct. sem. pl. 2: 462. 1791; Hook. f., Fl. Brit. India 3: 298. 1881 ('dysinterica').
Inula dysenterica L., Sp. pl. 882. 1753.
NW Himalaya.

Pulicaria foliolosa DC., Prodr. 5: 480. 1836; Hook. f., Fl. Brit. India 3: 298. 1881.
In many parts of India.

Pulicaria glaucescens Jaub. & Spach, Ill. pl. orient. 4: 79, t. 349. 1853; Hook. f., Fl. Brit. India 3: 300. 1881.
N to NW India.

Pulicaria gnaphalodes (Vent.) Boiss. in Walp., Repert. bot. syst. 6: 144. 1846 & Diagn. pl. orient. n. s. 1, 6: 76. 1845; Hook. f., Fl. Brit. India 3: 299. 1881.
Inula gnaphalodes Vent., Descr. pl. nouv. t. 75. 1802.
NW Himalaya.

Pulicaria petiolaris Jaub. & Spach, Ill. pl. orient. 4: 69, t. 344. 1852 ; Malhotra & D. Basu in J. Bombay Nat. Hist. Soc. 80: 451, pl. 1. (1983) 1984.
Himalayas.

Pulicaria prostrata (Gilib.) Asch., Fl. Brandenburg 1: 304. 1860; Sarv.Kumar in Hajra et al. (Eds.), Fl. India 13: 38. 1995.
Inula prostrata Gilib., Fl. lit. inch. 1: 205. 1782.
Pulicaria vulgaris Gaertn., Fruct. sem. pl. 2: 461, t. 173. 1791; Hook. f., Fl. Brit. India 3: 298. 1881.
NW Himalaya, NW India.

Pulicaria rajputanae Blatt. & Hallb. in J. Bombay Nat. Hist. Soc. 26: 535. 1919.
Francoeuria rajputanae (Blatt. & Hallb.) Parmar & R.P. Pandey in J. Econ. Taxon. Bot. 4: 1030. 1983.
Rajasthan (Jodhpur).

Pulicaria salviifolia Bunge in Mem. Acad. Imp. Sci. St.- Pétersbourg Divers Savans 7: 331. 1854; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 771. 1972.
NW Himalaya.

Pulicaria undulata (L.) C.A. Mey., Verz. Pfl. Casp. Meer. 79. 1831.
Inula undulata L., Mant. pl. 1: 115. 1767.
Aster crispus Forssk., Fl. aegypt.-arab. 150. 1775.
Pulicaria crispa (Forssk.) Sch.Bip. in Webb & Berthel., Hist. nat. Iles Canaries sect. 2: 233. 1844; Hook. f., Fl. Brit. India 3: 299. 1881.
Francoeuria undulata (L.) Lack in Rech. f., Fl. iran. 145: 120. 1980; Guha Bakshi, Fl. Murshidabad 168. 1984.
C E N & W India.

Pulicaria wightiana (DC.) C.B. Clarke, Compos. ind. 128. 1876; Hook. f., Fl. Brit. India 3: 298. 1881.
Polon wightiana DC. in Arch. Bot. (Paris) 2: 515. 1833; Wight, Icon. pl. Ind. orient. t. 1089. 1846.
N to S India.

REICHARDIA Roth, Bot. Abh. Beobacht. 35. 1787.
PICRIDIUM Desf., Fl. atlant. 2: 220. 1799.

Reichardia tingitana (L.) Roth, Bot. Abh. Beobacht. 35. 1787; K.K. & S. Sharma, Fl. Rajasthan 160. 1989.
Scorzonera tingitana L., Sp. pl. 791. 1753.
Picridium tingitanum (L.) Desf., Fl. atlant. 2: 220. 1799; Hook. f., Fl. Brit. India 3: 413. 1881.
var. **tingitana**.
L to NW India.

var. **subintegra** (Boiss.) Maingain & R.R. Rao in J. Bombay Nat. Hist. Soc. 86: 273. 1989.
Picridium tingitanum var. *subintegra* Boiss., Fl. orient. 3: 828. 1875; Hook. f., Fl. Brit. India 3: 413. 1881.
Rajasthan.

RHYNCHOSPERMUM Reinw. in Syll. Pl. Nov. 2: 7. 1825.

Rhynchospermum verticillatum Reinw. ex Blume, Bijdr. 902. 1826; Hook. f., Fl. Brit. India 3: 248. 1881.
NE India, Temperate Himalaya.

RUDBECKIA L., Sp. pl. 906. 1753.

Rudbeckia amplexicaulis Vahl in Skr. Naturhist.- Selsk. 2(2): 29, t.4. 1793; M.R. Almeida, Fl. Maharashtra 3A: 129. 2001.
Cultivated.

SAUSSUREA DC. in Ann. Mus. Natl. Hist. Nat. 16: 156, 198. 1810, nom. cons.

Saussurea abnormis Lipsch. in Bot. J. URSS 56: 826. 1971; R.R. Rao et al., Fl. ind. enum.- Asterac. 61. 1988.
Saussurea neglecta Ludlow in Bull. Brit. Mus. <Nat. Hist.>, Bot. 5: 279. 1976.
C to W Himalaya.

Saussurea albescens (DC.) Sch.Bip. in Linnaea 19: 330. 1846; Hook. f., Fl. Brit. India 3: 374. 1881.
Aplotaxis albescens DC., Prodr. 6: 540. (1837) 1838.
C to W Himalaya.

Saussurea andersonii C.B. Clarke, Compos. ind. 226. 1876; Hook. f., Fl. Brit. India 3: 370. 1881.
E Himalaya.

Saussurea andryaloides (DC.) Sch.Bip. in Linnaea 19: 331. 1846.
Aplotaxis andryaloides DC., Prodr. 6: 542. (1837) 1838.
Saussurea falconeri Hook. f., Fl. Brit. India 3: 369. 1881.
Alpine W Himalaya.

Saussurea aster Hemsl. in J. Linn. Soc., Bot. 30: 115. 1894; R.R. Rao et al., Fl. ind. enum.- Asterac. 61. 1988.
W Himalaya.

Saussurea atkinsonii C.B. Clarke, Compos. ind. 224. 1876; Hook. f., Fl. Brit. India 3: 367. 1881.
W Himalaya.

Saussurea auriculata (DC.) Sch.Bip. in Linnaea 19: 331. 1846; G. Miehe in Bull. Brit. Mus. <Nat. Hist.>, Bot. 16: 256. 1987.
Aplotaxis auriculata DC., Prodr. 6: 541. (1837) 1838.
Saussurea hypoleuca Spreng. ex DC., Prodr. 6: 541. (1837) 1838; Hook. f., Fl. Brit. India 3: 374. 1881.
Temperate Himalaya.

Saussurea bracteata Decne. in Jacquem., Voy. Inde 4: 94, t. 102. 1844; Hook. f., Fl. Brit. India 3: 366. 1881.
Saussurea schultzii Hook. f., Fl. Brit. India 3: 366. 1881.
W Himalaya.

Saussurea candolleana (DC.) Sch.Bip. in Linnaea 19: 331. 1846; Hook. f., Fl. Brit. India 3: 372. 1881; Dickoré in Edinburgh J. Bot. 58: 20. 2001.
Aplotaxis candolleana DC., Prodr. 6: 541. (1837) 1838.
Saussurea pterocaulon Decne. in Jacquem., Voy. Inde 4: 95, t. 103. 1844; M.A. Rau, High alt. fl. pl. W. Himal. 135. 1975.
Saussurea clarkei Hook. f., Fl. Brit. India 3: 372. 1881.
Himalayas.

Saussurea chenopodifolia Klatt in Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München 8: 91. 1878; R.R. Rao et al., Fl. ind. enum.- Asterac. 62. 1988.
Saussurea decurrens Hemsl. in Hooker's Icon. Pl. ser. 3, 18: t. 1735. 1887 - 1888.
NW Himalaya.

Saussurea chitralica Duthie in Ann. Roy. Bot. Gard. (Calcutta) 9: 45. 1901; R.R. Rao et al., Fl. ind. enum.- Asterac. 62. 1988.
NW Himalaya.

Saussurea chrysotricha Ludlow in Bull. Brit. Mus. (Nat. Hist.), Bot. 2: 70, f. 4, t. 2. 1956.
C Himalaya.

Saussurea columnaris Hand.-Mazz. in Notizbl. Bot. Gart. Berlin-Dahlem 13: 652. 1937; R.R. Rao et al., Fl. ind. enum.- Asterac. 62. 1988.
Himalayas.

Saussurea costus (Falc.) Lipsch. in Bot. Žurn. (Moscow & Leningrad) 49: 131. 1964.
Aucklandia costus Falc. in Ann. Mag. Nat. Hist. 6 (39): 475. 1841 & in Trans. Linn. Soc. London 19: 24. 1842.
Aplotaxis lappa Decne. in Jacquem., Voy. Inde 4: 96, t. 104. 1844.
Saussurea lappa (Decne.) Sch.Bip. in Linnaea 19: 331. 1846; Hook. f., Fl. Brit. India 3: 376. 1881.
Alpine W Himalaya.

Saussurea crispa Vaniot in Bull. Acad. Int. Géogr. Bot. 12: 21. 1903.
Aplotaxis nivea DC., Prodr. 6: 541. (1837) 1838.
Saussurea deltoidea var. *polycephala* C.B. Clarke, Compos. ind. 236. 1876.
Saussurea deltoidea var. *nivea* (DC.) Hook. f., Fl. Brit. India 3: 375. 1881.
Saussurea nivea (DC.) N.P. Balakr., Fl. Jowai 1: 262. 1981.
Saussurea microdeltoidea Kitam. in Acta Bot. Yunnan. 19: 14. 1961.
E Himalaya, NE India.

Saussurea deltoidea (DC.) Sch.Bip. in Linnaea 19: 331. 1846; Hook. f., Fl. Brit. India 3: 374. 1881.
Aplotaxis deltoidea DC., Prodr. 6: 541. (1837) 1838.
Saussurea lamprocarpa Hemsl. ex F.B. Forbes & Hemsl. in J. Linn. Soc., Bot. 23: 465. 1888; *S.K. Mukerjee in Rec. Bot. Surv. India 20 (2): 131. 1973.
C & E Himalaya, NE India.
Note: *S.K. Mukerjee, op. cit., cited this species due to oversight under *Senecio* which was followed by H.B. Naithani, Fl. pl. India, Nepal & Bhutan 238. 1990.

Saussurea depsangensis Pamp., Fl. Caracorùm 176, t. 9, f. 4. 1930; R.R. Rao et al., Fl. ind. enum.- Asterac. 63. 1988.
NW Himalaya.

Saussurea dhwojii Kitam. in Acta Phytotax. Geobot. 30: 128. 1979; Chater & Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 38. 1982.
C Himalaya.

Saussurea diffusa Lipsch., Gen. Saussurea 140. 1979; Hajra in Hajra et al. (Eds.), Fl. India 12: 198. 1995.
Saussurea albescens var. *brachycephala* Hook. f., Fl. Brit. India 3: 374. 1881.
NW Himalaya.

Saussurea donkiah C.B. Clarke ex Spring. in Edinburgh J. Bot. 57: 405, f. 2 g–i. 2000.
C to E Himalaya.

Saussurea elliptica C.B. Clarke ex Hook. f., Fl. Brit. India 3: 372. 1881; Dickoré in Edinburgh J. Bot. 58: 20. 2001.
NW Himalaya.

Saussurea fastuosa (Decne.) Sch.Bip. in Linnaea 19: 331. 1846; M.A. Rau, High alt. fl. pl. W. Himal. 134. 1975.
Aplotaxis fastuosa Decne. in Jacquem., Voy. Inde 4: 97, t. 105. 1844.
Saussurea denticulata Wall. ex C.B. Clarke, Compos. ind. 234. 1876, non Ledeb., 1829; Hook. f., Fl. Brit. India 3: 375. 1881.
Himalayas.

Saussurea fibrosa King ex W.W. Sm. in J. & Proc. Asiat. Soc. Bengal 7: 72. 1911.
E Himalaya.

Saussurea forrestii Diels in Notes Roy. Bot. Gard. Edinburgh 5: 198. 1912; R.R. Rao et al., Fl. ind. enum.- Asterac. 63. 1988.
E Himalaya.

Saussurea gilesii Hemsl. in Hooker's Icon. Pl. ser. 3, 18: t. 1736. 1887 - 1888; R.R. Rao et al., Fl. ind. enum.- Asterac. 63. 1988.
W Himalaya.

Saussurea glacialis Herder in Bull. Soc. Imp. Naturalistes Moscou 40(3): 144. 1867; R.R. Rao et al., Fl. ind. enum.- Asterac. 63. 1988.
Saussurea chthonocephala Bornm. in Reperl. Spec. Nov. Regni Veg. Beih. 108: 59. 1938.
W Himalaya.

Saussurea glanduligera Sch.Bip. in Linnaea 19: 331. 1846; Hook. f., Fl. Brit. India 3: 371. 1881.
var. **glanduligera.**
Himalayas.

var. **major** Hook. f., Fl. Brit. India 3: 371. 1881.
W Himalaya.

Saussurea gnaphalodes (Royle ex DC.) Sch.Bip. in Linnaea 19: 331. 1846; M.A. Rau, High alt. fl. pl. W. Himal. 134. 1975.
Aplotaxis gnaphalodes Royle ex DC., Prodr. 6: 542. (1837) 1838.
Aplotaxis sorocephala Schrenk in Fisch. & C.A. Mey., Enum. pl. nov. 1: 43. 1841.
Saussurea sorocephala (Schrenk) Sch.Bip. in Linnaea 19: 331. 1846; Hook. f., Fl. Brit. India 3: 377. 1881.
var. **gnaphalodes.**
C to W Himalaya.

var. **glabrata** (Hook. f.) Karthik. & Moorthy comb. nov.
Saussurea sorocephala var. ? *glabrata* Hook. f., Fl. Brit. India 3: 377. 1881.
NW Himalaya.

Saussurea gossypiphora D. Don in Mem. Wern. Nat. Hist. Soc. 3: 414. 1821 & Prodr. fl. nepal. 168. 1825; Hook. f., Fl. Brit. India 3: 376. 1881.
var. **gossypiphora.**
Himalayas.

var. **luxuriosa** Lipsch. in Nov. Syst. Pl. Vasc. Acad. Sci. URSS 222. 1966 & Gen. Saussurea 46. 1979; R.R. Rao et al., Fl. ind. enum.- Asterac. 64. 1988.
C to E Himalaya.

var. **lilliputa** Lipsch. in Nov. Syst. Pl. Vasc. Acad. Sci. URSS. 223. 1966 & Gen. Saussurea 46. 1979; R.R. Rao et al., Fl. ind. enum.- Asterac. 64. 1988.
E Himalaya.

Saussurea graminifolia Wall. ex DC., Prodr. 6: 536. (1837) 1838; Hook. f., Fl. Brit. India 3: 376. 1881.
var. **graminifolia.**
Himalayas.

var. **glabrata** Hook. f., Fl. Brit. India 3: 371. 1881.
W Himalaya.

Saussurea heteromalla (D.Don) Hand.-Mazz., Symb. sin. 7: 1152. 1936; R.K. Gupta, Fl. nainital. 177. 1968.
Cnicus heteromallus D. Don, Prodr. fl. nepal. 166. 1825.
Aplotaxis candicans DC., Prodr. 6: 540. (1837) 1838.
Saussurea candicans (DC.) Sch.Bip. in Linnaea 19: 330. 1846; Hook. f., Fl. Brit. India 3: 373. 1881.
Himalayas.

Saussurea hieracioides Hook. f., Fl. Brit. India 3: 371. 1881.
C to E Himalaya.

Saussurea hookeri C.B. Clarke, Compos. ind. 230. 1876; Hook. f., Fl. Brit. India 3: 371. 1881.
Himalayas.

Saussurea jacea (Klotzsch) C.B. Clarke, Compos. ind. 223. 1876; Hook. f., Fl. Brit. India 3: 375. 1881.
Aplotaxis jacea Klotzsch in Klotzsch & Garcke, Bot. Ergebn. Reise Waldemar 79, t. 79. 1862.
W Himalaya.

Saussurea katochaete Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg 27: 491. 1881; Grierson & Spring, in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1440. 2001.
E Himalaya.

Saussurea laminamaensis Kitam. in Acta Phytotax. Geobot. 32: 140. 1981.
C & E Himalaya.

Saussurea laneana W.W. Sm. in J. & Proc. Asiat. Soc. Bengal 7: 74. 1911.
E Himalaya.

Saussurea leontodontoides (DC.) Sch.Bip. in Linnaea 19: 330. 1846; M.A. Rau, High alt. fl. pl. W. Himal. 134. 1975.
Aplotaxis leontodontoides DC., Prodr. 6: 539. (1837) 1838.
Saussurea kunthiana C.B. Clarke, Compos. ind. 225. 1876; Hook. f., Fl. Brit. India 3: 369. 1881.
var. leontodontoides.
Alpine Himalayas.

var. **filicifolia** (Hook.f.) Hand.-Mazz., Symb. sin. 7: 1155. 1936; C. Miehe in Bull. Brit. Mus. (Nat. Hist.), Bot. 16: 256. 1987.
Saussurea kunthiana var. *filicifolia* Hook. f., Fl. Brit. India 3: 369. 1881.
E Himalaya.

Saussurea leptophylla Hemsl. in Hooker's Icon. Pl. ser. 3, 18: t. 1734. 1887 - 1888; R.R. Rao et al., Fl. ind. enum.- Asterac. 65. 1988.
NW Himalaya.

Saussurea linearifolia Ludlow in Bull. Brit. Mus. ‹Nat. Hist.›, Bot. 2: 72. 1956.
C Himalaya.

Saussurea medusa Maxim. in Bull.Acad. Imp. Sci. Saint-Pétersbourg 27: 488. 1881; R.R. Rao et al., Fl. ind. enum.- Asterac. 65. 1988.
Saussurea dainellii Pamp. in Boll. Soc. Bot. Ital. 4 - 6: 32. 1915.
Saussurea trullifolia W.W. Sm. in Notes Roy. Bot. Gard. Edinburgh 12: 220. 1920.
Saussurea nanikawae Kitam. in Acta Phytotax. Geobot. 24: 5. 1969.
C to NW Himalaya.

Saussurea nagensis C.E.C. Fisch. in Bull. Misc. Inform. 1940: 36. 1940.
NE India.

Saussurea nana (Pamp.) Pamp., Fl. Caracorùm 176. 1930.
Saussurea schultzii var. *nana* Pamp. in Nuovo Giorn. Bot. Ital. 46: 33. 1915.
W Himalaya.

Saussurea nepalensis Spreng., Syst. veg. ed. 16. 3: 380. 1826; G. Miehe in Bull. Brit. Mus. ‹Nat. Hist.›, Bot. 16: 256. 1987.
Saussurea eriostemon Wall. ex C.B. Clarke, Compos. ind. 229. 1876; Hook. f., Fl. Brit. India 3: 370. 1881.
Saussurea chapmanii C.E.C. Fisch. in Bull. Misc. Inform. 1938: 287. 1938.
C to E Himalaya.

Saussurea nimborum W. W. Sm. in J & Proc. Asiat. Soc. Bengal 7: 73. 1911.
E Himalaya.

Saussurea nishiokae Kitam. in Acta Phytotax. Geobot. 24: 6. 1969; R.R. Rao et al., Fl. ind. enum.- Asterac. 65. 1988.
C to E Himalaya.

Saussurea obscura Lipsch. in Novosti Sist. Vyssh. Rast. 8: 250. 1971 & Gen. Saussurea 166. 1979; R.R. Rao et al., Fl. ind. enum.- Asterac. 65. 1988.
Saussurea inconspicua Lipsch. in Novit. Syst. Pl. Vasc., Acad. Sci. URSS. 1968: 211. in clavi, 219. 1969 non Hand.-Mazz., 1939.
E Himalaya.

Saussurea obvallata (DC.) Edgew. in Trans. Linn. Soc. London 20: 76. 1846; Hook. f., Fl. Brit. India 3: 365. 1881.
Aplotaxis obvallata DC., Prodr. 6: 541. (1837) 1838.
Himalayas.

Saussurea ovata Benth. in Hend. & Hume, Lahore to Yarkand 325. 1873.
NW Himalaya.

Saussurea pachyneura Franch. in J. Bot. (Morot) 8: 354. 1894; Hajra in Hajra et al. (Eds.), Fl. India 12: 209. 1995.
Saussurea kunthiana var. *major* Hook. f., Fl. Brit. India 3: 369. 1881.
C to E Himalaya.

Saussurea pantlingiana W.W. Sm. in J. & Proc. Asiat. Soc. Bengal 7: 73. 1911.
E Himalaya.

Saussurea piptathera Edgew. in Trans. Linn. Soc. London 20: 76. (Aug.) 1846; Hook. f., Fl. Brit. India 3: 372. 1881.
Aplotaxis discolor DC., Prodr. 6: 541. (1837) 1838 non *Saussurea discolor* (Willd.) DC., 1810.
Himalayas.
Note: Raab- Straube has proposed – cf. Taxon 53: 560 – 561. 2004 – to conserve the name *Saussurea piptathera* against *Saussurea indica* Sch.Bip. in Linnaea 19: 331. (July) 1846.

Saussurea platyphyllaria Ludlow in Bull. Brit. Mus. (Nat. Hist.), Bot. 2: 73. 1956.
C Himalaya.

Saussurea polystichoides Hook. f., Fl. Brit. India 3: 369. 1881.
C to E Himalaya.

Saussurea roylei (DC.) Sch.Bip. in Linnaea 19: 330. 1846; Hook. f., Fl. Brit. India 3: 370. 1881.
Aplotaxis roylei DC., Prodr. 6: 538. (1837) 1838.
C to W Himalaya.

Saussurea simpsoniana (Fielding & Gardner) Lipsch. in Novosti Sist. Vyssh. Rast. 1964: 319. 1964; M.A. Rau, High alt. fl. pl. W. Himal. 135. 1975.
Aplotaxis simpsoniana Fielding & Gardner, Sert. pl. pt. 2: t. 26. 1844.
Saussurea sacra Edgew. in Trans. Linn. Soc. London 20: 76. 1846; Hook. f., Fl. Brit. India 3: 376. 1881.
Alpine Himalayas.

Saussurea spicata Ludlow ex Kitam. in Acta Phytotax. Geobot. 30: 128. 1979.
C to E Himalaya.

Saussurea stella Maxim. in Bull. Acad. Imp. Sci. Saint-Pétersbourg 27: 490. 1881; W.W. Sm. & Cave in Rec. Bot. Surv. India 4 (5): 211. 1911; R.R. Rao et al., Fl. ind. enum.- Asterac. 66. 1988.
E Himalaya.

Saussurea stoliczkai C.B. Clarke, Compos. ind. 225. 1876; Hook. f., Fl. Brit. India 3: 368. 1881.
C to W Himalaya.

Saussurea stracheyana (Kuntze) Lipsch. in Sist. Zametki Mater. Gerb. Krylova Tomsk. Gosud. Univ. Kujbyševa 84: 26. 1967.
Theodorea stracheyana Kuntze, Revis. gen. pl. 1: 368. 1891.
Aplotaxis foliosa Edgew. in Trans. Linn. Soc. London 20: 77. 1846.
Saussurea foliosa (Edgew.) Hook. f., Fl. Brit. India 3: 373. 1881 non Ledeb., 1829.
Saussurea edgeworthii Kitam. in Acta Phytotax. Geobot. 24: 4. 1969.
C to W Himalaya.

Saussurea subulata C.B. Clarke, Compos. ind. 226. 1876 p.p.; Hook. f., Fl. Brit. India 3: 367. 1881.
NW Himalaya.

Saussurea sudhanshui Hajra in Indian Forester 109: 77. 1983.
W Himalaya.

Saussurea sughoo C.B. Clarke, Compos. ind. 225. 1876; Hook. f., Fl. Brit. India 3: 368. 1881.
C to E Himalaya.

Saussurea taraxacifolia (Lindl. ex Royle) Wall. ex DC., Prodr. 6: 532. (1837) 1838; Hook. f., Fl. Brit. India 3: 368. 1881 ('taraxicifolia').

Cyathidium taraxacifolium Lindl. ex Royle, Ill. bot. Himal. Mts. 251. 1835.
Aplotaxis caespitosa DC., Prodr. 6: 539. (1837) 1838.
Saussurea caespitosa (DC.) Wall. ex Sch.Bip. in Linnaea 19: 330. 1846.
Saussurea taraxacifolia var. *depressa* Hook. f., Fl. Brit. India 3: 369. 1881.
Saussurea caespitosa var. *depressa* (Hook. f.) Lipsch., Gen. Saussurea 16. 1979; Hajra in Hajra et al. (Eds.), Fl. India 12: 193. 1995.
Alpine Himalaya.

Saussurea thomsonii C.B. Clarke, Compos. ind. 227. 1876; Hook. f., Fl. Brit. India 3: 366. 1881.
NW Himalaya.

Saussurea tridactyla Sch.Bip. ex Hook. f., Fl. Brit. India 3: 377. 1881.
C to E Himalaya.

Saussurea uniflora (DC.) Sch.Bip. in Linnaea 19: 330. 1846; Hook. f., Fl. Brit. India 3: 366. 1881.
Aplotaxis uniflora DC., Prodr. 6: 539. (1837) 1838.
Saussurea conica var. *uniflora* (DC.) N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 61. 1970.
var. **uniflora**.
C & E Himalaya.

var. conica (C.B. Clarke) Hook. f., Fl. Brit. India 3: 366. 1881.
Saussurea conica C.B. Clarke, Compos. ind. 224. 1876.
C to E Himalaya.

Saussurea wernerioides Sch.Bip. ex Hook. f., Fl. Brit. India 3: 367. 1881.
C to E Himalaya.

Saussurea yakla C.B. Clarke, Compos. ind. 227. 1876; Hook. f., Fl. Brit. India 3: 368. 1881.
C to E Himalaya.

SCLEROCARPUS Jacq., Icon. pl. rar. 1: 17, t. 176. 1781.

Sclerocarpus africanus Jacq. ex Murray, Syst. veg. ed. 14. 783. 1784; Hook. f., Fl. Brit. India 3: 305. 1881.
Almost throughout India including W Himalaya.

SCORZONERA L., Sp. pl. 790. 1753.

Scorzonera alba R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 778. 1972.
NW Himalaya.

Scorzonera divaricata Turcz. in DC., Prodr. 7: 125. 1838; Hook. f., Fl. Brit. India 3: 418. 1881.
W Himalaya.

Scorzonera fusca Kitam. in Acta Phytotax. Geobot. 19: 134. 1963.
NW Himalaya.

Scorzonera hispanica L., Sp. pl. 791. 1753; M.R. Almeida, Fl. Maharashtra 3A: 130. 2001.
Cultivated.

Scorzonera hondae Kitam. in Acta Phytotax. Geobot. 19: 105. 1963.
NW Himalaya.

Scorzonera purpurea L., Sp. pl. 791. 1753; Hook. f., Fl. Brit. India 3: 418. 1881.
NW Himalaya.

Scorzonera subaphylla Boiss., Diagn. pl. orient. ser. 1, 7: 8. 1846; Mamgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 340. 1995.
NW Himalaya.

Scorzonera virgata DC., Prodr. 7: 125. 1838; N.C. Nair, Fl. Bashahr Himal. 162. 1977.
Alpine Himalayas.

SENECIO L., Sp. pl. 866. 1753.
SENECIO sect. PSEUDOJACOBAEA Hook. f., Fl. Brit. India 3: 343. 1881.
PSEUDOJACOBAEA (Hook. f.) R. Mathur in R.R. Rao et al., Fl. ind. enum.- Asterac. 59. 1988.

Senecio albopurpureus Kitam. in Kihara (Ed.), Fauna & fl. Nepal Himal. 271. 1955; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 383. 1984.
Senecio bracteolatus Hook. f., Fl. Brit. India 3: 339. 1881 non Hook. & Arn., 1841.
C to E Himalaya.

Senecio belgaumensis (Wight) C.B. Clarke, Compos. ind. 200. 1876; Hook. f., Fl. Brit. India 3: 348. 1881.
Madacarpus belgaumensis Wight in Calcutta J. Nat. Hist. 7: 157. 1847.
Peninsular India.

Senecio bicolor (Willd.) Tod. ssp. **cineraria** (DC.) Chater in Bot. J. Linn. Soc. 68: 273. 1974; Dawre et al. in J. Econ. Taxon. Bot. 11: 220. (1987) 1988.
Senecio cineraria DC., Prodr. 6: 374. (1837) 1838.
Cultivated.

Senecio biligulatus W.W. Sm. in J. & Proc. Asiat. Soc. Bengal 7: 69. 1911.
C to E Himalaya.

Senecio bombayensis N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 61. 1970.
Doronicum reticulatum Wight in Calcutta J. Nat. Hist. 7: 156. 1847 & Icon. pl. Ind. orient. t. 1151. 1846.
Senecio reticulatus (Wight) C.B. Clarke, Compos. ind. 199. 1876, non DC., 1837.
Senecio grahami Hook. f., Fl. Brit. India 3: 347. 1881 non Benth., 1857.
C N & Peninsular India.
Note: *Senecio arachnoidea* (C.B. Clarke) M.R. Almeida, Fl. Maharashtra 3A: 130. 2001 based on *Madacarpus arachnoidea* C.B. Clarke, Compos. ind. 199. 1876.

Senecio candicans DC. in Wight, Contr. bot. India 22. 1834 & Prodr. 6: 369. (1837) 1838; Wight, Icon.pl. Ind. orient. t. 1134. 1846; Hook. f., Fl. Brit. India 3: 352. 1881.
SW Ghats (Karnataka, Tamilnadu).

Senecio candolleanus Wall. ex DC., Prodr. 6: 364. (1837) 1838; Hook. f., Fl. Brit. India 3: 353. 1881.
Himalayas.

Senecio cinarifolius H. Lév. in Repert. Spec. Nov. Regni Veg. 12: 283. 1913; R.R. Rao et al., Fl. ind. enum.- Asterac. 68. 1988.
W Himalaya.

Senecio dalzellii C.B. Clarke, Compos. ind. 201. 1876; Hook. f., Fl. Brit. India 3: 346. 1881.
Senecio lawii C.B. Clarke, Compos. ind. 201. 1876; Hook. f., Fl. Brit. India 3: 347. 1881.
Peninsular India.

Senecio desfontainei Druce, List Brit. pl. ed. 2. 61. 1928; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 426. 1984.
Senecio coronopifolius Desf., Fl. atlant. 2: 273. 1799 non Burm. f., 1768; Hook. f., Fl. Brit. India 3: 341. 1881.
W Himalaya.

Senecio dubitabilis C. Jeffrey & Y.L. Chen in Kew Bull. 39: 427. 1984.
Senecio dubius Ledeb., Fl. altaic. 4: 112. (July – Dec.) 1833 non L.C. Beck, (June, 1833); Hook. f., Fl. Brit. India 3: 342. 1881.
NW India, W Himalaya.

Senecio echaetus Y.L. Chen & K.Y. Pan in Acta Phytotax. Sin. 19: 94. 1981; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 409. 1984.
C Himalaya.

Senecio edgeworthii Hook. f., Fl. Brit. India 3: 346. 1881.
Doronicum tomentosum Wight, Icon. pl. Ind. orient. t. 1151. 1846.
Senecio tomentosus (Wight) C.B. Clarke, Compos. ind. 200. 1876 non Michx., 1803.
Senecio lanuginosa var. *tomentosa* (Wight) M.R. Almeida , Fl. Maharashtra 3A: 132. 2001.
C & Peninsular India.

Senecio gibsonii Hook. f., Fl. Brit. India 3: 347. 1881.
Peninsular India.

Senecio goringensis Hemsl. in Bull. Misc. Inform. 1896: 212. 1896; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 782. 1972.
NW Himalaya.

Senecio graciliflorus DC., Prodr. 6: 365. (1837) 1838; Hook. f., Fl. Brit. India 3: 338. 1881.
Temperate Himalayas.

Senecio griffithii Hook. f. & Thomson ex C. B. Clarke, Compos. ind. 193. 1876; Hook. f., Fl. Brit. India 3: 341. 1881.
Meghalaya.

Senecio hewrensis (Dalzell) Hook. f., Fl. Brit. India 3: 346. 1881.
Doronicum hewrense Dalzell in Dalzell & A. Gibson, Bombay fl. 130. 1861.
Hymenatherum hewrensis (Dalzell) M.R. Almeida, Fl. Maharashtra 3A: 116. 2001.
Maharashtra, Rajasthan.

Senecio hohenackeri Hook. f., Fl. Brit. India 3: 345. 1881.
Doronicum candolleanum Wight & Arn. ex Arn. in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18: 351. 1836; Wight, Icon. pl. Ind. orient. t. 1127. 1846.
var. **hohenackeri.**
SW Ghats (Nilgiris & Sivagiri hills).

var. **rupestris** (Wight) Gamble, Fl. Madras 722. 1921 (2: 508. 1967, Repr.).
Doronicum rupestre Wight, Icon. pl. Ind. orient. t. 1128. 1846.
SW Ghats (Sivagiri hills).

Senecio korshinskyi Krasch. in Trudy Bot. Inst. Akad. Nauk SSSR ser. 1, Fl. Sist. Vyss. Rast. 3: 352. 1937.
Jacobaea korshinskyi (Krasch.) B. Nord. in Compositae Newslett. 44: 13. 2006.
NW Himalaya.

Senecio kraschenninikovii Schischk. in Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk SSSR 15: 410. 1953; R.R. Rao et al., Fl. ind. enum.- Asterac. 69. 1988.
Senecio pedunculatus Edgew. in Trans. Linn. Soc. London 21: 74. 1846 non Sch.Bip., 1844; Hook. f., Fl. Brit. India 3: 342. 1881.
var. **kraschenninikovii.**
NW India, W Himalaya.

var. **albus** (B. Ghosh & U.C. Bhattach.) Aswal & Mehrotra in Indian J. Forest. 13: 66. 1990.
Senecio pedunculatus var. *albus* B. Ghosh & U.C. Bhattach. in J. Econ. Taxon. Bot. 10: 311, f. 1. (1987) 1988.
W Himalaya.

Senecio kumaonensis Duthie ex C. Jeffrey & Y.L. Chen in Kew Bull . 39: 357. 1984.
Cacalia penninervis H. Koyama in Mem. Fac. Sci. Kyoto Univ., ser. Biol. 2 : 180. 1969 non *Senecio penninervius* DC., (1837)1838.
Koyamacalia penninervis (H. Koyama) H. Rob. & Brettell in Phytologia 27: 273. 1973.
Himalayas, NW India.

Senecio kundaicus C.E.C. Fisch. in Bull. Misc. Inform. 1940: 45. 1940.
Nilgiris.

Senecio ladakhensis H.J. Chowdhery, Uniyal, R. Mathur & R.R. Rao in Indian J. Forest. 13: 366, f. 1, 1-5. (1990) 1991.
NW Himalaya.

Senecio laetus Edgew. in Trans. Linn. Soc. London 20: 74. 1846; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 404. 1984.
Senecio chrysanthemoides DC., Prodr. 6: 365. (1837) 1838 non Schrank, 1789; Hook. f., Fl. Brit. India 3: 339. 1881.
Senecio pallens var. *khasianus* C.B. Clarke, Compos. ind. 192. 1876.
Senecio chrysanthemoides var. *khasiana* (C.B. Clarke) Hook. f., Fl. Brit. India 3: 339. 1881.
var. **laetus**.
Himalayas, NE & NW India.

var. **analogus** (DC.) *R. Mathur ex Karthik. & Moorthy comb. nov.
Senecio analogus DC., Prodr. 6: 366. (1837) 1838.
Senecio chrysanthemoides var. *analogus* (DC.) Hook. f., Fl. Brit. India 3: 339. 1881.
NW Himalaya, NW India.

var. **sisymbriiformis** (DC.) Aswal in Aswal & Mehrotra, Fl. Lahaul-Spiti 384. 1994.
Senecio sisymbriiformis DC., Prodr. 6: 366. (1837) 1838.
Senecio chrysanthemoides var. *sisymbriiformis* (DC.) Hook. f., Fl. Brit. India 3: 339. 1881.
NW India, NW Himalaya.

var. **spectabilis** (Wall. ex DC.) *R. Mathur ex Karthik. & Moorthy comb. nov.
Senecio spectabilis Wall. ex DC., Prodr. 6: 366. (1837) 1838.
Senecio chrysanthemoides var. *spectabilis* (Wall. ex DC.) Hook. f., Fl. Brit. India 3: 339. 1881.
Himalayas.
Note: * R. Mathur in R.R. Rao et al., Fl. ind. enum.- Asterac. 69. 1988 has indicated erroneous basionyms for the above two varieties - which were combinations made by Hook. f. in Fl. Brit. India - the error is being rectified here.

Senecio lavandulaefolius DC. in Wight, Contr. bot. India 23. 1834 & Prodr. 6: 368. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 1133. 1846; Hook. f., Fl. Brit. India 3: 343. 1881.
Pseudojacobaea lavandulaefolius (DC.) R. Mathur in R.R. Rao et al., Fl. ind. enum.- Asterac. 59. 1988.
SW Ghats (Kerala, Tamilnadu).

Senecio lawsonii Gamble in Bull. Misc. Inform. 1920: 342. 1920 & Fl. Madras 2: 507. 1967 (Repr.).
Nilgiris.

Senecio lessingianus (Wight & Arn.) C.B. Clarke, Compos. ind. 198. 1876; Hook. f., Fl. Brit. India 3: 344. 1881.
Doronicum lessingianum Wight & Arn. in Arn., Pug. pl. ind. or. 106. 1836; Wight, Icon. pl. Ind. orient. t. 1126. 1846.
Nilgiris.

Senecio linifolius (DC.) C.B. Clarke, Compos. ind. 202. 1876; Hook. f., Fl. Brit. India 3: 343. 1881.
Doronicum linifolium DC., Prodr. 6: 322. (1837) 1838.
NE India.

Senecio ludens C.B. Clarke, Compos. ind. 199. 1876; Hook. f., Fl. Brit. India 3: 345. 1881.
SW Ghats.

Senecio mayurii C.E.C. Fisch. in Bull. Misc. Inform. 1939: 250. 1939.
S India.

Senecio mishmi C.B. Clarke, Compos. ind. 203. 1876; Hook. f., Fl. Brit. India 3: 344. 1881.
E Himalaya.

Senecio multiceps N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 62. 1970.
Doronicum arnottii DC. in Wight, Contr. bot. India 22. 1834; Wight, Icon. pl. Ind. orient. t. 1125. 1846 non *Senecio arnottii* Hook. f., 1846.
Mudaractis polycephala DC., Prodr. 6: 440. (1837) 1838.
Senecio polycephalus (DC.) C.B. Clarke, Compos. ind. 197. 1876, non Ledeb., 1830; Hook. f., Fl. Brit. India 3: 344. 1881.
Nilgiris.

Senecio neelgherianus DC. in Wight, Contr. bot. India 23. 1834 & Prodr. 6: 368. (1837) 1838; Wight, Icon. pl. Ind. orient. t. 1132. 1846; Hook. f., Fl. Brit. India 3: 341. 1881 ('nilgheryanus').
SW Ghats.

Senecio nudicaulis Buch.-Ham. ex D. Don, Prodr. fl. nepal. 179. 1825; Hook. f., Fl. Brit. India 3: 340. 1881.
Throughout India.

Senecio obtusatus Wall. ex DC., Prodr. 6: 367. (1837) 1838; Hook. f., Fl. Brit. India 3: 340. 1881; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 401. 1984.
Senecio khasianus N.P. Balakr. in J. Bombay Nat. Hist. Soc. 67: 62. 1970.
NE India.

Senecio ramosus Wall. ex DC., Prodr. 6: 365. (1837) 1838; Hook. f., Fl. Brit. India 3: 342. 1881.
E Himalaya, NE India.

Senecio raphanifolius Wall. ex DC., Prodr. 6: 366. (1837) 1838; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 408. 1984.
Senecio diversifolius Wall. ex DC., Prodr. 6: 366. (1837) 1838 non Dumort., 1827; Hook. f., Fl. Brit. India 3: 340. 1881.
Senecio latiliguiatus N.P. Balakr., Fl. Jowai 1: 268. 1981.
C to E Himalaya, NE India.

Senecio royleanus DC., Prodr. 6: 367. (1837) 1838; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 370. 1984.
Senecio graciliflorus DC. var. *hookeri* C.B. Clarke, Compos. ind. 189. 1876; Hook. f., Fl. Brit. India 3: 339. 1881.
Himalayas.

Senecio scandens Buch.-Ham. ex D. Don, Prodr. fl. nepal. 178. 1825; Hook. f., Fl. Brit. India 3: 352. 1881; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 419. 1984.
Senecio wightianus DC. in Wight, Contr. bot. India 22. 1834; Wight, Icon. pl. Ind. orient. t. 1136. 1846.
Senecio intermedius Wight, Icon. pl. Ind. orient. t. 1135. 1846.
var. **scandens**.
NE & S India, Temperate Himalayas.

var. **incisus** Franch. in J. Bot. (Morot) 10: 418. 1896; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 423. 1984.
Senecio flexicaulis Edgew. in Trans. Linn. Soc. London 20: 74. 1846.
Senecio scandens sensu Hook. f., Fl. Brit. India 3: 352. 1881 p.p. non Buch.-Ham. ex D.Don, 1825.
Senecio scandens var. *scandens* forma *incisus* (Franch.) Kitam. in Acta Phytotax. Geobot. 42: 56. 1991.
C to W Himalaya, S India.

Senecio sempervivus Sch.Bip. in Flora 28: 500. 1845; T. Cooke, Fl. Bombay 2: 112. 1967 (Repr.).
Cultivated.

Senecio tenuifolius Burm. f., Fl. indica 181, t. 60, f. 4. 1768; Hook. f., Fl. Brit. India 3: 345. 1881.
Doronicum tenuifolium (Burm. f.) Wight, Icon. pl. Ind. orient. t. 1129. 1846.
W Ghats.

Senecio tetrandrus Buch.-Ham. ex DC., Prodr. 6: 365. (1837) 1838; Hook. f., Fl. Brit. India 3: 342.1881 ('tetrandus').
Himalayas.

Senecio tibeticus Hook. f., Fl. Brit. India 3: 340. 1881.
Alpine W Himalaya.

Senecio topkegolensis Kitam. in Acta Phytotax. Geobot. 32: 140. 1981; Chater in H. Hara et al., Enum. fl. pl. Nepal 3: 42. 1982.
C Himalaya.

Senecio vestitus P.J. Bergius, Descr. pl. Cap. 282. 1767; Panigrahi & Ram Saran in Bull. Bot. Surv. India 9: 255. 1967.
Rajasthan.

Senecio vulgaris L., Sp. pl. 867. 1753; Gamble, Fl. Madras 2: 509. 1967 (Repr.).
Weed.

Senecio wightii (DC.) Benth. in Benth. & Hook. f., Gen. pl. 2: 248. 1873; C. Jeffrey & Y.L. Chen in Kew Bull. 39: 416. 1984.
Doronicum wightii DC. in Wight, Contr. bot. India 23. 1834; Wight, Icon. pl. Ind. orient. t. 1124. 1846.
Senecio saxatilis Wall. ex DC., Prodr. 6: 367. (1837) 1838; Hook. f., Fl. Brit. India 3: 344. 1881.
E Himalaya, NE & S India.

Senecio zeylanicus DC., Prodr. 6: 365. (1837) 1838; Hook. f., Fl. Brit. India 3: 340. 1881.
S. W. Ghats: Tamilnadu (Pulneys).

Doubtful species:
Senecio lanuginosa (Edgew.) M.R. Almeida, Fl. Maharashtra 3A: 132. 2001.
Madacarpus lanuginosus Edgew. in Trans. Linn. Soc. London 20: 75. 1846.
Maharashtra.
Senecio lanuginosa var. *aclandii* M.R. Almeida, Fl. Maharashtra 3A: 132. 2001 is invalid.

SERIPHIDIUM Poljakov in Vestn. Akad. Nauk Kazahsk. SSR 11: 171. 1961.

Seriphidium aucheri (Boiss.) Ling & Y.R. Ling in Acta Phytotax. Sin. 18: 513. 1980; Y.R. Ling in Bull. Bot. Surv. India 33: 306. 1991.
Artemisia aucheri Boiss., Fl. orient. 3: 367. 1875.
NW Himalaya.

Seriphidium brevifolium (Wall. ex DC.) Ling ex Y.R. Ling in Acta Phytotax. Sin. 18: 513. 1980; Y.R. Ling in Bull. Bot. Surv. India 33: 306. 1991.
Artemisia maritima sensu Hook. f., Fl. Brit. India 3: 323. 1881 p.p., non L., 1753.
Artemisia brevifolia Wall. ex DC., Prodr. 6: 103. (1837) 1838; Hook. f., Fl. Brit. India 3: 324. 1881 pro syn.
W Himalaya.

Seriphidium lehmannianum (Bunge) Poljakov in Vestn. Akad. Nauk Kazahsk. SSR 11: 175. 1961.
Artemisia lehmanniana Bunge in Mém. Acad. Imp. Sci. Saint Pétersbourg ser.7, 7: 340. 1854.
Artemisia maritima sensu Hook. f., Fl. Brit. India 3: 323. 1881 p.p., non L., 1753.
NW Himalaya, NW India.

Seriphidium thomsonianum (C.B. Clarke) Ling & Y.R. Ling in Acta Phytotax. Sin. 18: 513. 1980; Y.R. Ling in Bull. Bot. Surv. India 33: 307. 1991.
Artemisia maritima var. *thomsoniana* C.B. Clarke, Compos. ind. 160. 1876; C. Jeffrey in Kew Bull. 19: 400. 1965.
Artemisia maritima forma *subercota* Ledeb., Fl. ross. 2: 572. 1845.
Artemisia maritima sensu Hook. f., Fl. Brit. India 3: 323. 1881 p.p., non L., 1753.
C to W Himalaya.

SERRATULA L., Sp. pl. 816. 1753.

Serratula pallida DC., Prodr. 6: 670. (1837) 1838; Hook. f., Fl. Brit. India 3: 379. 1881.
C to W Himalaya.

SIGESBECKIA L., Sp. pl. 900. 1753.

Sigesbeckia orientalis L., Sp. pl. 900. 1753; Wight, Icon. pl. Ind. orient. t. 1103. 1846; Hook. f., Fl. Brit. India 3: 304. 1881.
Throughout India including Himalayas

SILYBUM Adans., Fam. pl. 2: 116, 605. 1763 nom. cons.

Silybum marianum (L.) Gaertn., Fruct. sem. pl. 2: 378, t. 162/2. 1791; Hook. f., Fl. Brit. India 3: 364. 1881.
Carduus marianum L., Sp. pl. 823. 1753.
NW Himalaya, N India, Nilgiris.

SOLIDAGO L., Sp. pl. 878. 1753.

Solidago canadensis L., Sp. pl. 878. 1753; Raizada & H.O. Saxena, Fl. Mussoorie 1: 372. 1978.
Cultivated & escape.

Solidago decurrens Lour., Fl. cochinch. 501. 1790.
Solidago virgaurea var. *pubescens* C.B. Clarke, Compos. ind. 35. 1876; Hook. f., Fl. Brit. India 3: 245. 1881.
Himalayas, NE India.

Solidago microglossa DC., Prodr. 5: 332. 1836; Hajra in Hajra et al. (Eds.), Fl. India 12: 143. 1995.
Cultivated and often found as an escape.

Solidago nemoralis Aiton, Hort. kew. ed. 1. 3: 213. 1789; Chandrab. & N.C. Nair, Fl. Coimbatore 163. 1988.
Cultivated.

Solidago virgaurea L., Sp. pl. 880. 1753; Hook. f., Fl. Brit. India 3: 245. 1881.
ssp. virgaurea.
NE India, Tamilnadu, Temperate Himalayas.

ssp. **leiocarpa** (Benth.) Hultén, Fl. Aleut. isl. 315. 1937; Hajra in Hajra et al. (Eds.), Fl. India 12: 143. 1995.
Amphirhapis leiocarpa Benth. in London J. Bot. 1: 488. 1842.
Solidago virgaurea var. *leiocarpa* (Benth.) A. Gray in Mem. Amer. Acad. Arts n. s. 6: 395. 1858; Hook. f., Fl. Brit. India 3: 245. 1881.
C to W Himalaya.

SOLIVA Ruiz & Pav., Fl. peruv. prodr. 113. 1794.

Soliva anthemifolia (Juss.) R. Br. ex Less., Syn. gen. Compos. 268. 1832; U.C. Bhattach. in Bull. Bot. Surv. India 5: 375. 1963.
Gymnostylus anthemifolia Juss. in Ann. Mus. Natl. Hist. Nat. 4: 262. 1804.
C to W Himalaya, N India.

SONCHUS L., Sp. pl. 793. 1753.

Sonchus arvensis L., Sp. pl. 793. 1753; Hook. f., Fl. Brit. India 3: 414. 1881 p.p.
var. **arvensis.**
Throughout India.

var. **glaber** Haines, Bot. Bihar Orissa 498. 1922 (? : 522. 1961, Repr.).
E India.

Sonchus asper (L.) Garsault, Fig. pl. méd. 4: t. 565. 1764 & Descr. vertus pl. 4: 332. 1767; Hook. f., Fl. Brit. India 3: 414. 1881.
Sonchus oleraceus var. *asper* L., Sp. pl. 794. 1753.
Throughout India.

Sonchus jainii Chandrab., V. Chandras. & N.C. Nair in J. Bombay Nat. Hist. Soc. 81: 149, f. 7. 1984.
W Ghats: Tamilnadu (Anamalais).

Sonchus oleraceus L., Sp. pl. 794. 1753; Wight, Icon. pl. Ind. orient. t. 1141. 1846; Hook. f., Fl. Brit. India 3: 414. 1881.
Throughout India.

Sonchus wightianus DC., Prodr. 7: 187. 1838; Wight, Icon. pl. Ind. orient. t. 1142. 1846; Bir & M. Sharma in Bull. Bot. Surv. India 26: 219. (1984) 1986.
Sonchus arvensis sensu Hook. f., Fl. Brit. India 3: 414. 1881 p.p. non L., 1753.
Sonchus brachyotus auct. plur. non DC., 1838; Babu, Herb. fl. Dehra Dun 282. 1977.
Sonchus lachnocephalus Rech. f. in K. Danske Vid. Selsk., Biol. Skrift., 8(2) (Symb. afghan. 2): 202. 1955.
ssp.**wightianus**.
Throughout India.

ssp. **wallichianus** (DC.) Boulos in Bot. Not. 125: 297. 1972; S. Gould in H. Hara et al., Enum. fl. pl. Nepal 3: 44. 1982.
Sonchus wallichianus DC., Prodr. 7: 185. 1838.
Sonchus arvensis sensu Hook. f., Fl. Brit. India 3: 414. 1881 p.p. non L., 1753.
Throughout India.

SOROSERIS Stebbins in Mem. Torrey Bot. Club 19 : 27. 1940.

Soroseris deasyi (S. Moore) Stebbins in Mem. Torrey Bot. Club 19 : 36. 1940; M.A. Rau, High alt. fl. pl. W. Himal. 136. 1975.
Lactuca deasyi S. Moore in J. Bot. 38: 428. 1900.
Crepis glomerata sensu Hook. f., Fl. Brit. India 3: 398. 1881 p.p. non Decne., 1844.
Himalayas.

Soroseris erysimoides (Hand.-Mazz.) C. Shih in Acta Phytotax. Sin. 31: 444. 1993; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1460. 2001.
Crepis gillii var. *erysimoides* Hand.-Mazz. in Acta Horti Gothob. 12: 355. 1938.
C to E Himalaya.

Soroseris gillii (S. Moore) Stebbins in Mem. Torrey Bot. Club 19: 44. 1940; Mantgain & R.R. Rao in Hajra et al. (Eds.), Fl. India 12: 237. 1995.
ssp. **gillii**.
W Himalaya.

ssp. **occidentalis** Stebbins in Mem. Torrey Bot. Club 19: 44. 1940; M.A. Rau, High alt. fl. pl. W. Himal. 136. 1975.
W Himalaya.

Soroseris glomerata (Decne.) Stebbins in Mem. Torrey Bot. Club 19: 33. 1940; M.A. Rau, High alt. fl. pl. W. Himal. 136. 1975.
Prenanthes glomerata Decne. in Jacquem., Voy. Inde 4: 99. 1844.
Crepis glomerata (Decne.) Hook. f., Fl. Brit. India 3: 398. 1881 p.p.
Himalayas.

Soroseris hookeriana Stebbins in Mem. Torrey Bot. Club 19: 33. 1940; G. Miehe in Bull. Brit. Mus. (Nat. Hist.), Bot. 16: 259. 1987.
Crepis hookeriana C.B. Clarke, Compos. ind. 255. 1876 non Ball, 1873.
Crepis glomerata sensu Hook. f., Fl. Brit. India 3: 398.1881 p.p.
E Himalaya.

Soroseris pumila Stebbins in Mem. Torrey Bot. Club 19 : 38. 1940.
C to E Himalaya.

Soroseris umbrella (Franch.) Stebbins in Mem. Torrey Bot. Club 19: 33. 1940.
Crepis umbrella Franch. in J. Bot. (Morot) 9:255.1895.
Stebbinsia umbrella (Franch.) Lipsch. in 75th Anniv. Vol. Sukatsch. 361. 1956; D. Maity & Maiti in J. Bombay Nat. Hist. Soc. 104: 119. 2007.
E Himalaya.

SPHAERANTHUS L., Sp. pl. 927. 1753.

Sphaeranthus africanus L., Sp. pl. ed. 2. 1314. 1763; Hook. f., Fl. Brit. India 3: 275. 1881.
Andaman & Nicobar Islands, plains of E to Peninsular India.

Sphaeranthus amaranthoides Burm. f., Fl. indica 186. 1768; Hook. f., Fl. Brit. India 3: 274. 1881.
S India.

Sphaeranthus indicus L., Sp. pl. 927. 1753; Hook. f., Fl. Brit. India 3: 275. 1881.
Sphaeranthus hirtus Willd., Sp. pl. 3: 2395. 1803; Wight, Icon. pl. Ind. orient. t. 1094. 1846.
Throughout India.

Sphaeranthus senegalensis DC., Prodr. 5: 370. 1836; Babu, Herb. fl. Dehra Dun 283. 1977.
Almost in all parts of India including Andaman & Nicobar Islands.

SPILANTHES Jacq., Enum. syst. pl. 8, 28. 1760.

Spilanthes ciliata Kunth in Humb., Bonpl. & Kunth, Nov. gen. sp. (ed. folio) 4: 163. 1820; Sivar. & Remesan in J. Econ. Taxon. Bot. 10: 145. 1987.
C N & S India.

Spilanthes oleracea L., Syst. nat. ed. 12. 2: 534. 1767; R.R. Rao et al., Fl. ind. enum.- Asterac. 73. 1988.
Spilanthes acmella var. *oleracea* (L.) C.B. Clarke, Compos. ind. 138. 1876; Hook. f., Fl. Brit. India 3: 307. 1881.
Throughout tropical India.

Spilanthes pseudoacmella (L.) Murray in L., Syst. veg. ed. 13. (Ed. Murray) 610. 1774; H. Hara, Fl. E. Himal. 345. 1966.
Verbesina pseudoacmella L., Sp. pl. 901. 1753.
Spilanthes acmella var. *calva* sensu Hook. f., Fl. Brit. India 3: 307. 1881 p.p. non C.B. Clarke, 1876.
Throughout India.

Spilanthes radicans Jacq., Collectanea 3: 229-230. (1789) 1791; Sivar. & Remesan in J. Econ. Taxon. Bot. 10: 144. 1987.
N & S India.

Spilanthes vazhachalensis Sheela in J. Econ. Taxon. Bot. 31. 474, f.1. 2007.
Kerala.

STEIRODISCUS Less., Syn. gen. Compos. 251. 1832.
GAMOLEPIS Less., Syn. gen. Compos. 251. 1832.

Steirodiscus tagetes (L.) Schltr. in Bot. Jahrb. Syst. 27: 216. 1899.
Othonna tagetes L., Syst. nat. ed. 10. 1234. 1759.
Gamolepis annua Less., Syn. gen. Compos. 251. 1832; R.K. Gupta in J. Bombay Nat. Hist. Soc. 58: 762. 1962.
Cultivated.

STENOSERIS C. Shih in Acta Phytotax. Sin. 29: 411- 412. 1991.

Stenoseris graciliflora (DC.) C. Shih in Acta Phytotax. Sin. 29: 413 - 414. 1991.
Lactuca graciliflora DC., Prodr. 7: 139. 1838; Hook. f., Fl. Brit. India 3: 406. 1881.
E. Himalaya.

STEVIA Cav., Icon. 4: 32. 1797.

Stevia eupatoria Willd., Sp. pl. 3: 1775 1803; R.R. Rao et al., Fl. ind. enum.- Asterac. 73. 1988.
W Himalaya.

Stevia ovata Willd., Enum. pl. 855. 1809; R.R. Rao et al., Fl. ind. enum.- Asterac. 73. 1988.
W Himalaya, naturalised.

STRUCHIUM P. Browne, Civ. nat. hist. Jamaica 312. 1756.
SPARGANOPHORUS Boehm. in Ludw., Def. gen. pl. ed. 3. (Ed. Boehm.) 154, 560. 1760 (SPHARGANOPHORUS).

Struchium sparganophora (L.) Kuntze, Revis. gen. pl. 1: 366. 1891; R.V. Nair in Bull. Bot. Surv. India 8: 202, f. 18. 1966.
Ethulia sparganophora L., Sp. pl. ed. 2. 1171. 1763.
Sparganophorus sparganophora (L.) C. Jeffrey in Kew Bull. 43: 272. 1988.
Nicobar Islands, S India.

SYNEDRELLA Gaertn., Fruct. sem. pl. 2: 456. 1791 nom. cons.

Synedrella nodiflora (L.) Gaertn., Fruct. sem. pl. 2: 456, t. 171, f. 7. 1791; Hook. f., Fl. Brit. India 3: 308. 1881.
Verbesina nodiflora L., Cent. pl. I. 28. 1755.
Throughout India including Himalayas.

Syncdrella vialis (Less.) A. Gray in Proc. Amer. Acad. Arts 17: 217. 1882; K.K. Ahuja & Pataskar in Indian Forester 95: 267. 1969; Mangotra & Bhellum in Indian J. Forest. 21:178, f. A-G. 1998.
Calyptocarpus vialis Less., Syn. gen. Compos. 221. 1832.
NW Himalaya, N & W India.

SYNOTIS (C.B. Clarke) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 285. 1984.
Senecio subg. Synotis C.B. Clarke, Compos. ind. 177. 1876 excl. sect. Scandentes C.B. Clarke.

Synotis acuminata (Wall. ex DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 332. 1984.
Senecio acuminatus Wall. ex DC., Prodr. 6: 368. (1837) 1838; Hook. f., Fl. Brit. India 3: 354. 1881.
C & E Himalaya, NE India.

Synotis ainsliaeifolia C. Jeffrey & Y.L. Chen in Kew Bull. 39: 307. 1984.
E Himalaya.

Synotis alata (Wall. ex DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 306. 1984.
Senecio alatus Wall. ex DC., Prodr. 6: 368. (1837) 1838; Hook. f., Fl. Brit. India 3: 353. 1881.
Himalayas, NE & NW India.

Synotis auriculata C. Jeffrey & Y.L. Chen in Kew Bull. 39: 330, f. 19, A-G. 1984; R. Mathur in J. Econ. Taxon. Bot. 8: 464. 1986.
E Himalaya, NE India.

Synotis bhot (C.B.Clarke) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio bhot C.B. Clarke, Compos. ind. 187. 1876; Hook. f., Fl. Brit. India 3: 355. 1881.
E & NE India.

Synotis borii (Raizada) R. Mathur in J. Econ. Taxon. Bot. 8: 482. 1986.
Senecio borii Raizada in J. Indian Bot. Soc. 27: 206. 1948.
E Himalaya, NE India.

Synotis brevipappa C. Jeffrey & Y.L. Chen in Kew Bull. 39: 300. 1984.
E Himalaya.

Synotis brunneovillosa (Kitam.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 286. 1984.
Senecio brunneovillosa Kitam. in Acta Phytotax. Geobot. 30: 129. 1979.
C Himalaya.

Synotis cappa (Buch.-Ham. ex D. Don) C. Jeffrey & Y. L. Chen in Kew Bull. 39: 319. 1984.
Senecio cappa Buch.-Ham. ex D. Don, Prodr. fl. nepal. 179. 1825.
Senecio densiflorus Wall. ex DC., Prodr. 6: 369. (1837) 1838; Hook. f., Fl. Brit. India 3: 355. 1881.
var. cappa.
Himalayas, NE India.

var. **pubescens** (Kitam.) H.B. Naithani, Fl. pl. India, Nepal & Bhutan 241. 1990.
Senecio densiflorus var. *pubescens* Kitam. in H. Kihara (Ed.), Fauna & fl. Nepal Himal. 271. 1955.
Senecio cappa var. *pubescens* (Kitam.) Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 41. 1982.
Himalayas.

Synotis jowaiensis (N.P. Balakr.) R. Mathur in J. Econ. Taxon. Bot. 8: 482. 1986.
Senecio jowaiensis N.P. Balakr. in Indian Forester 101: 703. 1975.
Meghalaya.
Note: C. Jeffrey & Y.L. Chen, op. cit. 288 consider this species as allied to or identical with *Synotis triligulata*.

Synotis kunthiana (Wall. ex DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio kunthianus Wall. ex DC., Prodr. 6: 369. (1837) 1838; Hook. f., Fl. Brit. India 3: 354. 1881.
Temperate Himalayas.

Synotis lushaiensis (C.E.C. Fisch.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio lushaiensis C.E.C. Fisch.in Bull. Misc. Inform. 1928: 6. 1928.
NE India.

Synotis nagensium (C.B. Clarke) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 321. 1984.
Senecio nagensium C.B. Clarke in J. Linn. Soc., Bot. 35: 39. 1898.
Senecio densiflorus var. *mishmiensis* Hook. f., Fl. Brit. India 3: 355. 1881.
NE India.

Synotis panduriformis C. Jeffrey & Y.L. Chen in Kew Bull. 39: 287. 1984.
Senecio panduriformis Kitam. in Acta Phytotax. Geobot. 30: 130. 1979 ('panduliformis') non Hilliard, 1973.
C Himalaya.

Synotis rhabdos (C.B. Clarke) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio rhabdos C.B. Clarke in J. Linn. Soc., Bot. 25: 40, t. 19. 1889.
NE India.

Synotis rufinervis (DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio rufinervis DC., Prodr. 6: 369. (1837) 1838; Hook. f., Fl. Brit. India 3: 355. 1881.
C to W Himalaya, NW India.

Synotis saluenensis (Diels) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 330. 1984.
Senecio saluenensis Diels in Notes Roy. Bot. Gard. Edinburgh 5: 193. 1912.
E Himalaya.

Synotis simonsii (C.B. Clarke) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio simonsii C.B. Clarke, Compos. ind. 188. 1876; Hook. f., Fl. Brit. India 3: 356. 1881.
Assam.

Synotis solidaginea (Hand.-Mazz.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 323. 1984.
Senecio solidagineus Hand.-Mazz. in Acta Horti Gothob. 12: 285. 1938.
Senecio paucinervis Dunn var. *brachylepis* C. Marquand & Airy Shaw in J. Linn. Soc., Bot. 48: 192. 1929.
E Himalaya ?

Synotis tetrantha (DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 308. 1984.
Senecio tetranthus DC., Prodr. 6: 370. (1837) 1838; Hook. f., Fl. Brit. India 3: 352. 1881.
C to E Himalaya.

Synotis triligulata (Buch.-Ham. ex D. Don) C. Jeffrey & Y.L. Chen in Kew Bull . 39: 329. 1984.
Senecio triligulatus Buch.-Ham. ex D. Don, Prodr. fl. nepal. 178. 1825; Hook. f., Fl. Brit. India 3: 356. 1881.
C to E Himalaya, NE India.
Note: C. Jeffrey & Y.L. Chen (op. cit. 288) consider *Senecio jowaiensis* N.P. Balakr., *Senecio agnesiae* G. Watt & *Senecio floribundus* Wall. as allied or identical with *Synotis triligulata*.

Synotis vagans (Wall. ex DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 288. 1984.
Senecio vagans Wall. ex DC., Prodr. 6: 368. (1837) 1838.
C to E Himalaya.

Synotis wallichii (DC.) C. Jeffrey & Y.L. Chen in Kew Bull. 39: 305. 1984.
Senecio wallichii DC., Prodr. 6: 364. (1837) 1838; Hook. f., Fl. Brit. India 3: 353. 1881.
C to E Himalaya.

TAGETES L., Sp. pl. 887. 1753.

Tagetes erecta L., Sp. pl. 887. 1753.
Cultivated.

Tagetes minuta L., Sp. pl. 887. 1753; Maheshw. in J. Bombay Nat. Hist. Soc. 69: 451. 1972.
Cultivated.

Tagetes patula L., Sp. pl. 887. 1753; Prain, Bengal pl. 1: 445. 1963 (Repr.).
Cultivated & escape.

Tagetes signata Bartl., Index Sem. (Gottingen) 7. 1837; Raizada & H.O. Saxena, Fl. Mussoorie 1: 392. 1978.
Cultivated & escape.

Tagetes tenuifolia Cav., Icon. 2: 54, t. 169. 1793; Naik, Fl. Marathwada 500. 1998.
Cultivated.

TANACETUM L., Sp. pl. 843. 1753.

Tanacetum artemisioides Sch.Bip. ex Hook. f., Fl. Brit. India 3: 318. 1881.
Chrysanthemum karakoramense Kitam. in Acta Phytotax. Geobot. 19: 104. 1963.
Himalayas.

Tanacetum atkinsonii (C.B. Clarke) Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 45. 1982.
Chrysanthemum atkinsonii C.B. Clarke, Compos. ind. 147. 1876; Hook. f., Fl. Brit. India 3: 315. 1881.
C to E Himalaya.

Tanacetum cinerariifolium (Trevir.) Sch.Bip., Tanaceteen 58. 1844; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 421. 1984.
Pyrethrum cinerariifolium Trevir., Index Sem. (Bratislava) App. 2: 2. 1820.
Chrysanthemum cinerariifolium (Trevir.) Vis., Fl. dalmat. 2: 88. 1847.
Cultivated.

Tanacetum dolichophyllum (Kitam.) Kitam. in H. Hara et al., Enum. fl. pl. Nepal 3: 45. 1982.
Tanacetum longifolium Wall. ex DC., Prodr. 6: 130. (1837) 1838 non Thunb., 1807; Hook. f., Fl. Brit. India 3: 320. 1881.
Chrysanthemum dolichophyllum Kitam. in Acta Phytotax. Geobot. 23: 73. 1968.
Tanacetum himachalensis Aswal & Mehrotra in J. Econ. Taxon. Bot. 2: 236. 1981.
Himalayas.

Tanacetum emodi R. Khan in Edinburgh J. Bot. 48: 45. 1991.
Chrysanthemum tibeticum Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 147. 1876 non *Tanacetum tibeticum* Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 154. 1876.
W Himalaya.

Tanacetum falconeri Hook. f., Fl. Brit. India 3: 320. 1881.
W Himalaya.

Tanacetum fruticulosum Ledeb., Icon. pl. 1: 10, t. 38. 1829 & Fl. altaic. 4: 58. 1833; Hook. f., Fl. Brit. India 3: 318. 1881.
W Himalaya.

Tanacetum gilgitii R. Khan in Edinburgh J. Bot. 48: 43. 1991.
NW Himalaya.

Tanacetum gracile Hook.f. & Thomson ex Hook.f., Fl. Brit. India 3: 318. 1881.
W Himalaya.

Tanacetum griffithii (C.B. Clarke) Muradyan in Biol. Žurn. Armen. 23 (2): 90. 1970; R.R. Rao et al., Fl. ind. enum.- Asterac. 76. 1988.
Chrysanthemum griffithii C.B. Clarke, Compos. ind. 148. 1876; Hook. f., Fl. Brit. India 3: 315. 1881; Kachroo et al., Fl. Ladakh 97. 1977.
Alpine W Himalaya.

Tanacetum hissaricum (Krasch.) K. Bremer & Humphries in Bull. Nat. Hist. Mus. (London), Bot. 23: 102. 1993.
Pyrethrum hissaricum Krasch. in Repert. Spec. Nov. Regni Veg. 26: 26. 1929.
Haryana (Hissar).

Tanacetum nanum C.B. Clarke, Compos. ind. 155. 1876; Hook. f., Fl. Brit. India 3: 320. 1881.
W Himalaya.

Tanacetum robustum Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 154. 1876; Hook. f., Fl. Brit. India 3: 320. 1881.
W Himalaya.

Tanacetum roylei (DC.) Podlech in Mitt. Bot. Staatssamml. München 29: 459. 1990.
Pyrethrum roylei DC., Prodr. 6: 56. (1837) 1838.
Chrysanthemum tibeticum sensu Hook. f., Fl. Brit. India 3: 314. 1881 p.p. non Hook. f. & Thomson ex C.B. Clarke, 1876.
NW Himalaya.

Tanacetum stoliczkae (C.B. Clarke) R. Khan in Edinburgh J. Bot. 48: 50, f. 1. 1991.
Chrysanthemum stoliczkae C.B. Clarke, Compos. ind. 147. 1876; Hook. f., Fl. Brit. India 3: 314. 1881 (stoliczkai).
W Himalaya.

Tanacetum tibeticum Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 154. 1876; Hook. f., Fl. Brit. India 3: 319. 1881.
Himalayas.

Tanacetum tomentosum DC., Prodr. 6: 130. (1837) 1838; M.A. Rau, High alt. fl. pl. W. Himal. 136. 1975.
Tanacetum senecionis sensu Hook. f., Fl. Brit. India 3: 319. 1881 non J. Gay, 1838.
W Himalaya.

Tanacetum tripinnatifidum Oliv. in Hooker's Icon. Pl. ser. 4, 24: 2306. 1895; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 123. 1983.
Cancrinia tripinnatifida (Oliv.) Tzvelev in Kom., Fl. URSS (Eds. Schischk. & Bobrov) 26: 303. 1961.
Alpine W Himalaya.

Tanacetum vulgare L., Sp. pl. 844. 1753; B.D. Naithani in Hajra et al. (Eds.), Fl. India 12: 69. 1995.
Chrysanthemum vulgare (L.) Bernh., Syst. Verz. 144. 1800 non *Chrysanthemum vulgare* (Lam.) Gaterau, 1789; M.K. Kaul, Weed fl. Kashmir valley 165. 1986.
NW Himalaya, Upper Gangetic Plains.

TARAXACUM Weber ex F.H. Wigg., Prim. fl. holsat. 56. 1780 nom. cons.

Taraxacum aereum Soest in Wentia 10: 36. 1963; R.K. Gupta, Fl. nainital. 202. 1968.
W Himalaya.

Taraxacum amabile Soest in Wentia 10: 8. 1963.
C Himalaya.

Taraxacum amblylepidocarpum Soest in Wentia 10: 12. 1963 & in Acta Bot. Neerl. 14: 12. 1965.
Alpine NW Himalaya.

Taraxacum apargiaeforme Dahlst. in Acta Horti Gothob. 2: 178. 1926 ('apargiiforme'); U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Himalayas.

Taraxacum aurorum Soest in Wentia 10: 59. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine W Himalaya.

Taraxacum azzizii Soest in Wentia 10: 21. 1963; B.M. Sharma & Kachroo, Fl. Jammu 201. 1981.
NW Himalaya.

Taraxacum baltistanicum Soest in Wentia 10: 14. 1963.
W Himalaya.

Taraxacum banhyhalense Soest in Wentia 10: 37. 1963.
NW Himalaya.

Taraxacum bhutanicum Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 263. 1961.
E Himalaya.

Taraxacum bicolor DC., Prodr. 7: 148. 1838.
W Himalaya.

Taraxacum brevirostre Hand.-Mazz., Monogr. Taraxacum 46. 1907.
NW Himalaya.

Taraxacum ceratophorum (Ledeb.) DC., Prodr. 7: 146. 1838; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 423. 1984.
Leontodon ceratophorum Ledeb., Icon. pl. 1: 9, t. 34. 1829.
W Himalaya.

Taraxacum chitralense Soest in Bull. Brit. Mus. < Nat. Hist.>, Bot. 2: 264. 1961.
NW Himalaya.

Taraxacum coronatum Hand.-Mazz., Monogr. Taraxacum 33. 1907.
NW Himalayas.

Taraxacum dealbatum Hand.-Mazz., Monogr. Taraxacum 30. 1907.
NW Himalaya.

Taraxacum dissectum (Ledeb.) Ledeb., Fl. ross. 2: 814. 1846.
Leontodon dissectus Ledeb. in Mém. Acad. Imp. Sci. St. Pétersbourg Hist. Acad. 5 (1812) : 553, 555. 1814.
NW Himalaya.

Taraxacum duplidens H. Lindb. in Acta Soc. Fauna Fl. Fenn. 29 (9): 38. 1907; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 423. 1984.
W Himalaya.

Taraxacum elegans Soest in Wentia 10: 37. 1963.
C to W Himalaya.

Taraxacum eriocarpum H. Hartmann in Candollea 39: 508. 1984.
NW Himalaya.

Taraxacum eriopodum (D. Don) DC., Prodr. 7: 147. 1838; Kirschner & Stephanek in Edinburgh J. Bot. 53: 217. 1996.
Leontodon eriopodum D. Don in Mem. Wern. Nat. Hist. Soc. 3: 413. 1820.
Taraxacum officinale var. *eriopoda* (D.Don) Hook. f., Fl. Brit. India 3: 401. 1881.
Taraxacum wattii Hook. f., Fl. Brit. India 3: 402. 1881 emend. Soest in Wentia 10: 52. 1963.
Himalayas, NE India.

Taraxacum erioscapum H. Hartmann in Candollea 39: 508, f. 3. 1984.
NW Himalaya.

Taraxacum flavum Soest in Wentia 10: 22. 1963.
Alpine NW Himalaya.

Taraxacum forrestii Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 265, pl. 23. 1961.
W Himalaya.

Taraxacum fulvescens Soest in Wentia 10: 23. 1963.
Alpine NW Himalaya.

Taraxacum fulvo-brunneum Soest in Wentia 10: 24. 1963.
Alpine NW Himalaya.

Taraxacum gulmargense Soest in Wentia 10: 25. 1963.
Alpine NW Himalaya.

Taraxacum harbhajan-singhii Soest in Wentia 10: 26. 1963.
var. **harbhajan-singhii**.
Alpine NW Himalaya.

var. **pahalgamense** Soest in Wentia 10: 27. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum hastatiforme Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 373. 1966.
NW Himalaya.

Taraxacum helianthum Soest in Wentia 10: 55. 1963.
NW Himalaya.

Taraxacum heterołoma Hand.-Mazz., Monogr. Taraxacum 120, t. 3, f. 12. 1907.
NW Himalaya.

Taraxacum heybroekii Soest in Wentia 10: 44. 1963.
Alpine NW Himalaya.

Taraxacum hooftii Soest in Bull . Brit. Mus. <Nat. Hist.>, Bot. 2: 267. 1961.
NW Himalaya.

Taraxacum indicum Hand.-Mazz., Monogr. Taraxacum 120. 1907; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum insigne Ekman ex Wiinst. & K. Jess. in Raunk., Dansk Exkurs.-Fl. ed. 5. 312. 1934.
Cultivated.

Taraxacum javanicum Soest in Wentia 10: 56, f. 27. 1963; M. Sharma & H. Kaur in J. Econ. Taxon. Bot. 18: 732. 1994.
Himalayas, N S & W India.

Taraxacum karakoricum Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 268. 1961.
Alpine W Himalaya.

Taraxacum kashmirense Soest in Bull . Brit. Mus. <Nat. Hist.>, Bot. 2: 268. 1961.
Alpine NW Himalaya.

Taraxacum kjellmaniiforme Soest in Wentia 10: 57. 1963.
Alpine NW Himalaya.

Taraxacum ladakense Soest in Wentia 10: 11. 1963.
Alpine NW Himalaya.

Taraxacum laevigatum (Willd.) DC., Cat. pl. horti monsp. 149. 1813; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 423. 1984.
Leontodon laevigatum Willd., Sp. pl. 3: 1546. 1803.
NW Himalaya.

Taraxacum lahulense Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 375. 1966.
Alpine NW Himalaya.

Taraxacum lanigerum Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 269. 1961.
C & W Himalaya.

Taraxacum latibasis Soest in Wentia 10: 28. 1963.
Alpine NW Himalaya.

Taraxacum leucanthum (Ledeb.) Ledeb., Fl. ross. 2: 815. 1844; H.J. Chowdhery in H.J. Chowdhery & Wadhwa, Fl. Himachal Pradesh 2: 424. 1984.
Leontodon leucanthum Ledeb., Fl. altaic. 4: 134. 1833.
W Himalaya.

Taraxacum lobbichleri Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 374. 1966.
NW Himalaya.

Taraxacum longicarpum Soest in Wentia 10: 40. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine W Himalaya.

Taraxacum ludlowii Soest in Bull. Brit. Mus. <Nat. Hist. > Bot. 2: 269. 1961; Chandra Sek. & S.K. Srivast. in Indian J. Forest. 31: 292. 2008.
W Himalaya.

Taraxacum luridum G.E. Haglund in Bot. Not. 1938: 307, f. 5. 1938; Wadhwa & Malhotra in Indian J. Forest. 9: 354, f. 1. 1986.
NW Himalaya.

Taraxacum maurocarpum Dahlst. in Acta Horti Gothob. 2: 176, f. 12, t. 3, f. 16-18. 1926.
NW Himalaya.

Taraxacum melleum Soest in Wentia 10: 46, t. 20. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum mitalii Soest in Wentia 10: 46. 1963.
C to E Himalaya.

Taraxacum monochlamydeum Hand.-Mazz., Monogr. Taraxacum 44. 1907; G. Miehe in Bull. Brit. Mus. <Nat. Hist.>, Bot. 16: 259. 1987.
C to W Himalaya.

Taraxacum mucronulatum Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 270. 1961.
C to E Himalaya.

Taraxacum nagaricum Soest in Wentia 10: 62. 1963.
NW Himalaya.

Taraxacum nasiri Soest in Wentia 10: 48. 1963.
Alpine NW Himalaya.

Taraxacum neolobulatum Soest in Acta Bot. Neerl. 9: 305. 1960.
Taraxacum lobulatum Bornm. ex Dahlst. in Acta Horti Berg. 9: 32. 1926 non Brenner, 1907.
W Himalaya.

Taraxacum nepalense Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 271. 1961.
C Himalaya.

Taraxacum nigrum Soest in Wentia 10: 48. 1963.
NW Himalaya.

Taraxacum nivale Lange ex Kihlm. in Meddeland. Soc. Fauna Fl. Fenn. 16: 67. 1889 & in Bot. Centralbl. 46: 41. 1891; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum officinale F.H. Wigg., Prim. fl. holsat. 56. 1780; Hook. f., Fl. Brit. India 3: 401. 1881.
var. **officinale**.
Almost throughout India including Himalayas.

var. **glaucescens** (M. Bieb.) Hook. f., Fl. Brit. India 3: 401. 1881.
Leontodon glaucescens M. Bieb., Fl. taur.-caucas. 3: 530. 1819.
Himalayas.

Taraxacum paludosum (Scop.) Schltr. ex Crép. var. **tenuifolium** Hand.-Mazz., Monogr. Taraxacum 76. 1907; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum parvuliforme Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 375. 1966.
Alpine NW Himalaya.

Taraxacum parvulum Wall. ex DC., Prodr. 7: 149. 1838; Kirschner & Stephanek in Edinburgh J. Bot. 53: 219. 1996.
Leontodon parvulum Wall., Numer. List 3247. 1831.
Taraxacum officinale var. *parvula* Hook. f., Fl. Brit. India 3: 401. 1881.
Taraxacum himalaicum Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 267. 1961.
Taraxacum himalaicum forma *kuluense* Soest in Wentia 10: 39. 1963.
Himalayas.

Taraxacum phoenicolepis Soest in Wentia 10: 29. 1963.
NW Himalaya.

Taraxacum polyodon Dahlst. in Ark. Bot. 9 : 56. 1910.
NW Himalaya.

Taraxacum primigenium Hand.-Mazz., Monogr. Taraxacum 17. 1907.
NW Himalaya.

Taraxacum pseudobicorne Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 378. 1966.
Himalayas.

Taraxacum pseudoeriopodum Soest in Wentia 10: 29, f. 13. 1963.
Alpine NW Himalaya.

Taraxacum pseudoleucanthum Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 365. 1966; U.Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum pseudostenoceras Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 272. 1961.
C to E Himalaya.

Taraxacum pseudostenolepium Soest in Wentia 10: 49. 1963.
Alpine W Himalaya.

Taraxacum pseudostevenii Soest in Wentia 10: 50. 1963.
Alpine NW Himalaya.

Taraxacum pubens Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 367. 1966; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 794. 1972.
NW Himalaya.

Taraxacum pullocarpum Soest in Wentia 10: 49. 1963.
Alpine NW Himalaya.

Taraxacum sherriffii Soest in Bull. Brit. Mus. <Nat. Hist.>, Bot. 2: 272. 1961; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
W Himalaya.

Taraxacum sikkimense Hand.-Mazz., Monogr. Taraxacum 103. 1907; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Himalayas.

Taraxacum spiticum Soest in Wentia 10: 53, f. 33. 1963.
W Himalaya.

Taraxacum squarrosiceps Soest in Wentia 10: 30. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum staintonii Soest in Wentia 10: 54. 1963.
C to W Himalaya.

Taraxacum staticifolium Soest in Bull . Brit. Mus. <Nat. Hist.>, Bot. 2: 272. 1961; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum stenolepium Hand.-Mazz., Monogr. Taraxacum 121. 1907; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum stereodiforme Soest in Wentia 10: 31. 1963; B.M. Sharma & Kachroo, Fl. Jammu 201. 1981.
W Himalaya.

Taraxacum stevenii (Spreng.) DC., Prodr. 7: 149. 1838 emend. Hand.-Mazz., Monogr. Taraxacum 121. 1907.
Leontodon stevenii Spreng., Syst. veg. ed. 16. 3: 658. 1826.
W Himalaya.

Taraxacum stewartii Soest in Wentia 10: 51. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum tenebristylum Soest in Wentia 10: 32. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum tibetanum Hand.-Mazz., Monogr. Taraxacum 67, t. 2, f. 12. 1907; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Himalayas.

Taraxacum tibeticum Hand.-Mazz., Monogr. Taraxacum 67. 1907.
Himalayas.

Taraxacum tricuspidatum Soest in Proc. Kon. Ned. Akad. Wetensch. ser. C, 69: 382. 1966.
Alpine NW Himalaya.

Taraxacum violaceo-maculatum Soest in Wentia 10: 59. 1963; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 127. 1983.
Alpine NW Himalaya.

Taraxacum vulpinum Soest in Wentia 10: 33. 1963; B.M. Sharma & Kachroo, Fl. Jammu 201. 1981.
forma **vulpinum**.
Alpine NW Himalaya.

forma **pallidocarpum** Soest in Wentia 10: 34. 1963.
NW Himalaya.

Taraxacum wallichii DC., Prodr. 7: 147. 1838.
W Himalaya.

Taraxacum xanthophyllum C.E. Haglund in Bot . Not. 1938: 314. 1938.
NW Himalaya.

THESPIS DC. in Arch. Bot. (Paris) 2: 331. 1833.

Thespis divaricata DC. in Arch. Bot. (Paris) 2: 517. 1833 & Prodr. 5: 375. 1836; Hook. f., Fl. Brit. India 3: 259. 1881.
E N & NE India, Tropical Himalayas.

THYMOPHYLLA Lag., Gen. sp. pl. 25. 1816.
HYMENATHERUM Cass. in Bull. Sci. Soc. Philom. Paris 1817: 12. 1817.

Thymophylla tenuifolia (Cass.) Rydb.in Britton, N. Amer. fl. (Ed. Barnhart) 34: 173. 1915.
Hymenatherum tenuifolium Cass. in Bull. Sci. Soc. Philom. Paris 1818: 183. 1818; Randeria in J. Bombay Nat. Hist. Soc. 53: 216. 1956.
Dyssodia tenuifolia (Cass.) Loes. in Bull. Herb. Boissier ser. II, 6: 866. 1906; K.K. & S. Sharma, Fl. Rajasthan 123. 1989.
Cultivated.

TITHONIA Desf. ex Juss., Gen. pl. 189. 1789.

Tithonia diversifolia (Hemsl.) A. Gray in Proc. Amer. Acad. Arts 19: 5. 1883; Santapau in Rec. Bot. Surv. India 16 (1): 139. 1967 (3rd rev. ed.).
Mirasolia diversifolia Hemsl., Biol. cent.-amer., Bot. 2: 168, t. 47. 1881.
Tithonia tagetiflora Santapau in Rec. Bot. Surv. India 16 (1): 123. 1960 (2nd rev. ed.) non Desf., 1802.
Introduced and naturalised.

Tithonia rotundifolia (Mill.) S.F. Blake in Contr. Gray Herb. 52: 41. 1917; Raizada in Indian Forester 92: 325. 1966.
Tagetes rotundifolia Mill., Gard. dict. ed. 8. no. 4. 1768.
Tithonia tagetiflora Desf. in Ann. Mus. Natl. Hist. Nat. 1: 49. t. 4. 1802.
Widespread weed.

TRAGOPOGON L., Sp. pl. 789.1753.

Tragopogon dubius Scop., Fl. carniol. ed. 2. 2: 95. 1772; Kachroo et al., Fl. Ladakh 106. 1977.
Tragopogon pratense sensu Hook. f., Fl. Brit. India 3: 418. 1881 non L., 1753.
Cultivated.

Tragopogon gracile D. Don in Mem. Wern. Nat. Hist. Soc. 3: 407. 1820; Hook. f., Fl. Brit. India 3: 417. 1881.
C to W Himalaya.

Tragopogon kashmirianus G. Singh, Forest fl. Srinagar 123. 1976.
NW Himalaya.

Tragopogon orientalis L., Sp. pl. 789. 1753; R.R. Stewart in Nasir & Ali (Eds.), Fl. W. Pakistan 797. 1972.
NW Himalaya.

Tragopogon sinuatus Avé- Lall., Pl. Ital. hor. 17. 1829; U. Dhar & Kachroo, Alp. fl. Kashmir Himal. 128. 1983.
Tragopogon porrifolium sensu Hook. f., Fl. Brit. India 3: 418. 1881 non L., 1753.
W Himalaya.

TRICHOLEPIS DC., in Arch. Bot. (Paris) 2: 515. 1833.

Tricholepis amplexicaulis C.B. Clarke, Compos. ind. 240. 1876; Hook. f., Fl. Brit. India 3: 381. 1881.
Peninsular India.

Tricholepis angustifolia DC., Prodr. 6: 564. (1837) 1838; Hook. f., Fl. Brit. India 3: 382. 1881.
Tricholepis glaberrima var. *angustifolia* (DC.) L.B. Chaudhary & A.K. Pandey in Rheedea 4: 45. 1994.
S India, Rajasthan (?)

Tricholepis chaetolepis (Boiss.) Rech.f. in Oesterr. Bot. Z. 97: 251. 1950.
Jurinea chaetolepis Boiss., Diagn. pl. orient. ser. 2, 3(2): 50. 1856.
Tricholepis toppinii Dunn in Bull. Misc. Inform. 1921: 217. 1921.
NW Himalaya.

Tricholepis elongata DC., Prodr. 6: 563. (1837) 1838; Hook. f., Fl. Brit. India 3: 380. 1881.
Himalayas.

Tricholepis furcata DC., Prodr. 6: 563. (1837) 1838; Hook. f., Fl. Brit. India 3: 380. 1881.
Temperate Himalayas.

Tricholepis glaberrima DC., Prodr. 6: 564. (1837) 1838; Hook. f., Fl. Brit. India 3: 381. 1881.
C N & Peninsular India.

Note: S.M. Almeida in J. Econ. Taxon. Bot. addl. ser. 8(1): 234. 1990 provided the name *Tricholepis indica* based on *Serratula indica* Klein ex Willd., Sp. pl. 3: 1642. 1803 for this species; however, the latter name is treated under *Goniocaulon indicum* (Klein ex Willd.) C.B. Clarke in this work.

Tricholepis karensium Kurz in J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 41: 318. 1872; Hook. f., Fl. Brit. India 3: 380. 1881*; Swami & B.K. Gupta in Indian J. Forest. 11: 167, photo 1. 1988.
W Himalaya.
Note: * Hook. f., op.cit. reported this species from Myanmar (Burma).

Tricholepis nakaoi Kitam. in Acta Phytotax. Geobot. 19: 105. 1963.
NW Himalaya.

Tricholepis radicans (Roxb.) DC. in Wight, Contr. bot. India 25. 1834; Hook. f., Fl. Brit. India 3: 381. 1881; L.B. Chaudhary & A.K. Pandey in Rheedea 4: 46. 1994.
Cardiuus radicans Roxb., Fl. ind. (Ed. Carey) 3: 408. 1832.
Peninsular India, Rajasthan.

Tricholepis raghavendrae Saklani & L.B. Chaudhary in Adansonia ser. 3, 25: 234, f. 1. 2003.
W Himalaya.

Tricholepis stewartii C.B. Clarke ex Hook. f., Fl. Brit. India 3: 380. 1881 ('stewartei').
Alpine NW Himalaya, NW India.

Tricholepis stictophyllum C.B. Clarke, Compos. ind. 241. 1878; Hook. f., Fl. Brit. India 3: 382. 1881.
C & E India, W Himalaya.

Tricholepis tibetica Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 241. 1876; Hook. f., Fl. Brit. India 3: 382. 1881.
Alpine NW Himalaya.

Note: Hook. f. treated the following two species as *'Doubtful and imperfectly known species'*:
Tricholepis montana Dalzell & A. Gibson, Bombay fl. 131. 1861; Hook. f., Fl. Brit. India 3: 383. 1881.
W Ghats.

Tricholepis roylei Hook. f., Fl. Brit. India 3: 383. 1881.
NW India.

TRIDAX L., Sp. pl. 900. 1753.

Tridax procumbens L., Sp. pl. 900. 1753; Hook. f., Fl. Brit. India 3: 311. 1881.
Throughout India.

TUSSILAGO L., Sp. pl. 865. 1753.

Tussilago farfara L., Sp. pl. 865. 1753; Hook. f., Fl. Brit. India 3: 330. 1881.
W Himalaya.

UECHTRITZIA Freyn in Oesterr. Bot. Z. 42: 240. 1892.

Uechtritzia kokanica (Regel) Pobed. in Kom., Fl. URSS (Eds. Schischk. & Bobrov) 28: 597, t. 28. 1963; H.V. Hansen in Nord. J. Bot. 8: 73. 1988.
Gerbera kokanica Regel & Schmalh. ex Regel in Izv. Imp. Obšč. Ljubit. Estestv. Moskovsk. Univ. 34: 82. 1882.
NW Himalaya.

Uechtritzia lacei (G. Watt) C. Jeffrey in Kew Bull. 21: 213. 1967; H.V. Hansen in Nord. J. Bot. 8: 74. 1988.
Gerbera lacei G. Watt in Bull. Misc. Inform. 1911: 272. 1911.
NW Himalaya, NW India.

VARTHEMIA DC., Prodr. 5: 473. 1836.

Varthemia corymbulosa Borrm. in Repert. Spec. Nov. Regni Veg. Beih. 108: 64. 1938.
NW Himalaya.

VERBESINA L., Sp. pl. 901. 1753.

Verbesina encelioides (Cav.) Benth. & Hook. f. ex A. Gray, Bot. California 1: 350. 1876 ('enceliodes'); Maheshw., Fl. Delhi 199. 1963.
Ximenesia encelioides Cav., Icon. 2: 60, t. 178. 1793; Raizada in J. Indian Bot. Soc. 15: 156. 1936.
C E N & S India.

VERNONIA Schreb., Gen. pl. 2: 541. 1791 nom. cons.

Vernonia albicans DC. in Wight, Contr. bot. India 6. 1834; Gamble, Fl. Madras 2: 475. 1967 (Repr.).
Vernonia cinerea sensu Hook. f., Fl. Brit. India 3: 233. 1881 p.p. non (L.) Less., 1829.
N & S India.

Vernonia altissima Nutt., Gen. N. Amer. pl. 2: 134. 1818; Uniyal in Hajra et al. (Eds.), Fl. India 13: 394. 1995.
Cultivated.

Vernonia anaimudica B.V. Shetty & Vivek. in Bull. Bot. Surv. India 12: 266. 1970.
SW Ghats (Kerala).

Vernonia anamallica Bedd. ex Gamble in Bull. Misc. Inform. 1920: 339. 1920 (Fl. Madras 2: 475. 1967, Repr.).
SW Ghats (Kerala, Tamilnadu).

Vernonia andamanica N.P. Balakr. & N.G. Nair in Bull. Bot. Surv. India 24: 32. (1982) 1983.
Andaman Islands.

Vernonia andersoni C.B. Clarke, Compos. ind. 27. 1876; Hook. f., Fl. Brit. India 3: 241. 1881.
Nagaland.

Vernonia arborea Buch.-Ham. in Trans. Linn. Soc., London 14: 218. 1824; Hook. f., Fl. Brit. India 3: 239. 1881; Ramamoorthy in C.J. Saldanha & Nicolson (Eds.), Fl. Hassan dist. 626. 1978 (2nd repr.).
Monosis wightiana DC. in Wight, Contr. bot. India 1. 1834; Wight, Icon. pl. Ind. orient. t. 1085. 1846; Bedd., Fl. sylv. S. India t. 226. 1872.
Vernonia arborea var. *wightiana* Hook. f., Fl. Brit. India 3: 239. 1881.
var. **arborea**.
Andaman & Nicobar Islands, NE & Peninsular India.

var. **javanica** (Blume) C.B. Clarke, Compos. Ind. 33. 1876; J. Kost. in Blumea 1: 386. 1935.
Eupatorium javanicum Blume, Bijdr. 903. 1826.
Assam.

Vernonia aspera Buch.-Ham. in Trans. Linn. Soc. London 14: 219. 1824; R.R. Rao et al., Fl. ind. enum.- Asterac. 86. 1988.
Eupatorium pyramidale D. Don, Prodr. fl. nepal. 170. 1825.
Vernonia roxburghii Less. in Linnaea 6: 674. 1831; Hook. f., Fl. Brit. India 3: 232. 1881.
Vernonia pyramidale (D. Don) S.N. Mitra in Indian Forester 99: 100. 1973.
Almost in all parts of India including Himalayas.

Vernonia attenuata DC., Prodr. 5: 33. 1836; Hook. f., Fl. Brit. India 3: 231. 1881.
E Himalaya, NE India.

Vernonia beddomei Hook. f., Fl. Brit. India 3: 231. 1881.
SW Ghats (Kerala).

Vernonia blanda DC., Prodr. 5: 32. 1836; Hook. f., Fl. Brit. India 3: 241. 1881; Kanjilal et al., Fl. Assam 3: 107. 1939.
NE India.

Vernonia bourdillonii Gamble in Bull. Misc. Inform. 1920: 339. 1920 & Fl. Madras 2: 475. 1967 (Repr.).
SW Ghats (Kerala, Tamilnadu).

Vernonia bourneana W.W. Sm. in Rec. Bot. Surv. India 6: 101. 1914; Gamble, Fl. Madras 2: 475. 1967 (Repr.).
SW Ghats [Kerala, Tamilnadu (Pulneys)].

Vernonia candolleana Wight & Arn. in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18: 346. 1836; Hook. f., Fl. Brit. India 3: 236. 1881.
SW Ghats (Nilgiris, Pulneys).

Vernonia cinerascens Sch.Bip. in Schweinf., Beitr. Fl. Aethiop. 162. 1867; Hook. f., Fl. Brit. India 3: 237. 1881*; Gamble, Fl. Madras 2: 474. 1967 (Repr.); Uniyal in Hajra et al. (Eds.), Fl. India 13: 364. 1995.
N S & W India.
Note: * Hook.f., op. cit. reported this species from erstwhile W Pakistan – Peshawar, Punjab, Salt Range, Scind & Waziristan .

Vernonia clivorum Hance in J. Bot. 7: 164. 1869; Hook. f., Fl. Brit. India 3: 232. 1881*; Malick & Safui in J. Econ. Taxon. Bot. 10: 6. (1987) 1988.
Manipur.
Note: * Hook. f., op. cit. reported this species from Myanmar (Burma).

Vernonia comorinensis W.W. Sm. in Rec. Bot. Surv. India 4: 283. 1911; Gamble, Fl. Madras 2: 474. 1967 (Repr.).
Kerala, Tamilnadu.

Vernonia conyzoides DC. in Wight, Contr. bot. India 6. 1834; Wight, Icon. pl. Ind. orient. t. 1076. 1846; Gamble, Fl. Madras 2: 475. 1967 (Repr.).
Vernonia cinerea sensu Hook. f., Fl. Brit. India 3: 233. 1881 p.p. non (L.) Less., 1829.
Rajasthan, S India.

Vernonia divergens (Roxb.) Edgew. in J. Asiat. Soc. Bengal 21: 172. 1853; Hook. f., Fl. Brit. India 3: 234. 1881.
Eupatorium divergens Roxb., Fl. ind. (Ed. Carey) 3: 414. 1832.
Decaneurum divergens (Roxb.) DC., Prodr. 5: 68. 1836; Wight, Icon. pl. Ind. orient. t. 1084. 1846.
Vernonia nilgheryensis DC., Prodr. 5: 32. 1836; Wight, Icon. pl. Ind. orient. t. 1078. 1846.
var. **divergens**.
Almost throughout India.

var. **lawii** C.B. Clarke; Brandis, Indian Trees 399. 1906.
Maharashtra.

Vernonia elliptica DC. in Wight, Contr. bot. India 5. 1834; Uniyal in Hajra et al. (Eds.), Fl. India 13: 370. 1995.

Vernonia elaeagnifolia DC., Prodr. 5: 22. 1836; Hook. f., Fl. Brit. India 3: 237. 1881*; Manilal & Sivar., Fl. Calicut 149. 1982.
Cultivated.
Note: * Hook. f., op. cit. reported this species from Myanmar (Burma).

Vernonia extensa DC., Prodr. 5: 33. 1836; Hook. f., Fl. Brit. India 3: 238. 1881.
Vernonia cylindriceps C.B. Clarke in J. Linn. Soc., Bot. 25: 35. 1889; Brandis, Indian trees 400. 1906.
C to E Tropical Himalayas, NE India.

Vernonia fysoni C.C. Calder in Rec. Bot. Surv. India 6: 343. 1919; Gamble, Fl. Madras 2: 474. 1967 (Repr.).
SW Ghats (Tamilnadu: Pulneys).

Vernonia gardneri Thwaites, Enum. pl. zeyl. 161. 1860; Hook. f., Fl. Brit. India 3: 230. 1881*; H.B. Naithani, Fl. pl. India, Nepal & Bhutan 250. 1990.
S India ?
Note: * Hook. f., op. cit. reported this species from Sri Lanka (Ceylon).

Vernonia gossypina Gamble in Bull. Misc. Inform. 1920: 340. 1920 & Fl. Madras 2: 474. 1967, (Repr.).
SW Ghats (Tamilnadu).

Vernonia heynei Bedd. ex Gamble in Bull. Misc. Inform. 1920: 340. 1920 & Fl. Madras 2: 473. 1967 (Repr.).
SW Ghats (Kerala, Tamilnadu).

Vernonia indica Wall. ex C.B. Clarke, Compos. ind. 16. 1876; Hook. f., Fl. Brit. India 3: 238. 1881.
Peninsular India.

Vernonia malabarica Hook. f., Fl. Brit. India 3: 230. 1881.
Vernonia babilbudensis Talbot in J. Bombay Nat. Hist. Soc. 11: 237. 1897.
SW Ghats.

Vernonia mastersii G. Watt ex Das in Kanjilal et al., Fl. Assam 3: 107. 1939.
NE India.

Vernonia meeboldii W.W. Sm. in Rec. Bot. Surv. India 4: 283. 1911; Gamble, Fl. Madras 2: 473. 1967 (Repr.).
SW Ghats (Kerala).

Vernonia multibracteata Gamble in Bull. Misc. Inform. 1920: 340. 1920 & Fl. Madras 2: 475. 1967, Repr.).
SW Ghats (Kerala, Tamilnadu).

Vernonia nayarii Uniyal in Indian J. Forest. 11: 171. 1988.
Vernonia recurva Bedd. ex S. Moore in J. Bot. 63: 171. 1925 non Gleason, 1906; C.E.C. Fisch. in Gamble, Fl. Madras 3: 1301. 1967 (Repr.).
SW Ghats (Tamilnadu).

Vernonia ornata Talbot in J. Bombay Nat. Hist. Soc. 11: 691. 1898 & For. fl. Bombay 2: 137. 1911.
Vernonia dalzelliana J.R. Drumm. & Hutch. in Bull. Misc. Inform. 1909: 261. 1909; Gamble, Fl. Madras 2: 474. 1967 (Repr.).
SW Ghats (Karnataka).

Vernonia parryae C.E.C. Fisch. in Bull. Misc. Inform. 1929: 6. 1929.
NE India.

Vernonia pectiniformis DC. in Wight, Contr. bot. India 2. 1834 & Prodr. 5: 31. 1836; Wight, Icon. pl. Ind. orient. t. 1077. 1846; Hook. f., Fl. Brit. India 3: 239. 1881.
ssp. **pectiniformis**.
S India.

ssp. **puncticulata** (DC.) Grierson in Ceylon J. Sci., Biol. Sci. 10: 45. 1972; Murugan et al. in Indian J. Forest. 31: 449. 2008.
Vernonia puncticulata DC., Prodr. 7: 264. 1838.
Vernonia pectiniformis sensu C.B. Clarke in Hook.f., Fl. Brit. India 3: 239. 1881 p.p. non DC., 1834.
Kerala.

Vernonia peguensis C.B. Clarke, Compos. ind. 13. 1876 & in J. Linn. Soc., Bot. 25: 35. 1889; Hook. f., Fl. Brit. India 3: 232. 1881*.
Nagaland.
Note: * Hook. f., op. cit. reported from Pegu.

Vernonia peninsularis (C.B. Clarke) C.B. Clarke ex Hook. f., Fl. Brit. India 3: 233. 1881.
Vernonia bracteata var. *peninsularis* C.B. Clarke, Compos. ind. 18. 1876.
Decaneurum silhetense Wight, Icon. pl. Ind. orient. t. 1083. 1846.
var. **peninsularis**.
SW Ghats (Kerala, Tamilnadu).

var. **kodayarensis** A.N. Henry & Gopalan in J. Econ. Taxon. Bot. 11: 233, f. 1. (1987) 1988.
SW Ghats (Kanyakumari dist., Tamilnadu).

Vernonia pothigaiana Chellad. & Gopalan in J. Econ. Taxon. Bot. 25: 271, ff. A – O. 2001.
SW Ghats (Podhigaimalai, Tirunelveli dist., Tamilnadu).

Vernonia pulneyensis Gamble in Bull. Misc. Inform. 1920: 341. 1920 & Fl. Madras 2: 473. 1967 (Repr.).
SW Ghats (Karnataka, Tamilnadu).

Vernonia ramaswamii Hutch. in Bull. Misc. Inform. 1916: 35. 1916; Gamble, Fl. Madras 2: 475. 1967 (Repr.).
SW Ghats (Tamilnadu.).

Vernonia raui Uniyal in Hajra et al. (Eds.), Fl. India 13: 382. 1995.
Vernonia membranacea Bedd. ex S. Moore in J. Bot. 63: 170. 1925 non Gardner, 1846.
SW Ghats [Tamilnadu (Atraimalais; Nilgiris)].

Vernonia revoluta Buch.-Ham. in Trans. Linn. Soc. London 14: 218. 1825; Hook. f., Fl. Brit. India 3: 233. 1881.
E & N India, Himalayas.

Vernonia saligna DC., Prodr. 5: 33. 1836; Hook. f., Fl. Brit. India 3: 235. 1881.
var. **saligna**.
NE India, Tropical C to E Himalaya.

var. **nilghirensis** Hook. f., Fl. Brit. India 3: 235. 1881.
SW Ghats (Kerala ,Tamilnadu).

Vernonia salviaefolia Wight, Icon. pl. Ind. orient. t. 1079. 1846; Hook. f., Fl. Brit. India 3: 237. 1881.
SW Ghats (Kerala, Tamilnadu).

Vernonia setigera Arn. in Nova Acta Phys.-Med. Acad. Caes. Leop.-Carol. Nat. Cur. 18: 345. 1836; Hook. f., Fl. Brit. India 3: 235. 1881*; Gamble, Fl. Madras 2: 474. 1967 (Repr.).
SW Ghats (Tamilnadu).
Note: * Hook. f., op. cit. reported this species from Sri Lanka (Ceylon).

Vernonia shevaroyensis Gamble in Bull. Misc. Inform. 1920: 341. 1920 (Fl. Madras 2: 473. 1967, Repr.).
Tamilnadu (E Ghats).

Vernonia silhetensis (DC.) Hand.-Mazz., Symb. sin. 7: 1084. 1936; N.P. Balakr., Fl. Jowai 1: 271. 1981
Decaneurum silhetense DC., Prodr. 5: 67. 1836.
Vernonia bracteata C.B. Clarke, Compos. ind. 17. 1876; Hook. f., Fl. Brit. India 3: 232. 1881.
C E & NE India, E Himalaya.

Vernonia squarrosa (D. Don) Less. in Linnaea 6: 627. 1831; H. Hara, Fl. E. Himal. 346. 1966.
Acilepis squarrosa D. Don, Prodr. fl. nepal. 169. 1825.
Vernonia teres Wall. ex DC., Prodr. 5: 15. 1836; Hook. f., Fl. Brit. India 3: 229. 1881.
C E & NE India, Tropical Himalayas.

Vernonia subsessilis DC., Prodr. 5: 62. 1836; Hook. f., Fl. Brit. India 3: 230. 1881.
var. **subsessilis**.
C to E Himalaya, NE India.

var. **bracteolata** (DC.) Hook. f., Fl. Brit. India 3: 230. 1881.
Vernonia bracteolata DC., Prodr. 5: 62. 1836.
NE India.

var. **macrophylla** Hook. f., Fl. Brit. India 3: 230. 1881; H. Hara, Fl. E. Himal. 346. 1966.
C to E Himalaya.

Vernonia talaumifolia Hook. f. & Thomson ex C.B. Clarke, Compos. ind. 25. 1876; Hook. f., Fl. Brit. India 3: 240. 1881.
var. **talaumifolia**.
E Himalaya, E & NE India.

var. **hirsutior** C.E.C. Fisch. in Bull. Misc. inform. 1935: 319. 1936; Kanjilal et al., Fl. Assam 3: 381. 1939.
NE India.

Vernonia travancorica Hook. f., Fl. Brit. India 3: 240. 1881.
SW Ghats.

Vernonia vagans Wall. ex DC., Prodr. 5: 32. 1836; R.R. Rao et al., Fl. ind. enum.- Asterac. 90. 1988
Vernonia scandens DC., Prodr. 5: 32. 1836; Hook. f., Fl. Brit. India 3: 241. 1881.
E Himalaya, NE India.

Vernonia vivekananthanii Uniyal in Hajra et al. (Eds.), Fl. India 13: 391. 1995.
Vernonia monosis Benth. ex C.B. Clarke, Compos. ind. 24. 1876 non Sch.Bip., 1847, R.R. Rao & Razi, Syn. fl. Mysore dist., 550. 1981.
SW Ghats.

Vernonia volkameriaefolia DC., Prodr. 5: 32. 1836; Hook. f., Fl. Brit. India 3: 240. 1881.
E Himalaya, NE India.

Vernonia wightiana Arn. in Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 18: 345. 1836; *Hook.f., Fl. Brit. India 3: 238. 1881; Murugan, Chithra & G.V.S. Murthy in J. Econ. Taxon. Bot. 32: 557. 2008
Kerala.
Note : *Hook.f. reported this species from Sri Lanka (Ceylon).

Species of doubtful occurrence:
Vernonia anceps C.B. Clarke ex Hook. f., Fl. Brit. India 3: 233. 1881*, G.S. Puri in Rec. Bot. Surv. India 19(1): 73. 1964.
Rajasthan (?)

Note: * Hook. f., op. cit. reported this species from Sri Lanka (Ceylon); Grierson in Dassan. & Fosberg (Eds.), Rev. handb. fl. Ceylon 1: 130. 1980 too state that this is endemic to Sri Lanka.

Vernonia cymosa Blume, Bijdr. 894. 1826; R.R. Rao et al., Fl. ind. enum.- Asterac. 88. 1988.
var. *cymosa*.
Andaman & Nicobar Islands.
Note: Uniyal in Hajra et al. (Eds.), Fl. India 13: 394. 1995 treated this under 'Excluded taxa'.

var. *eupatorioides* (Blume) J. Kost. in Blumea 1: 427. 1935.
Vernonia eupatorioides Blume, Bijdr. 894. 1826.
Meghalaya ?.

VITTADINIA A. Rich. in d'Urv., Voy. Astrolabe pt. 1: 250. 1832.

Vittadinia australis A. Rich. in d'Urv., Voy. Astrolabe pt. 1: 261. 1832; Hajra in Hajra et al. (Eds.), Fl. India 12: 147. 1995.
Garden escape.

WEDELIA Jacq., Enum. syst. pl. 8. 1760 nom. cons.

Wedelia chinensis (L.) Merr. in Philipp. J. Sci. 12: 111. 1917; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede's Hort. malab.): 69. 1988.
Verbesina chinensis L., Sp. pl. 901. 1753.
Verbesina calendulacea L., Sp. pl. 902. 1753.
Wedelia calendulacea (L.) Less., Syn. gen. Compos. 222. 1832 non Pers., 1807; Wight, Icon. pl. Ind. orient. t. 1107. 1846; Hook. f., Fl. Brit. India 3: 306. 1881.
Anisopappus chinensis (L.) Hook. & Arn., Bot. Beechey Voy. 196. 1837; N.P. Balakr. in Bull. Bot. Surv. India 16: 170. 1977.
Andaman & Nicobar Islands, E & W Coasts, E Himalaya, NE India.

Wedelia glauca (Ortega) O. Hoffm. ex Hicken in Apuntes Hist. Nat. 2: 254. 1910; M.R. Almeida, Fl. Maharashtra 3A: 147. 2001.
Pascalia glauca Ortega, Nov. pl. descr. dec. 39, pl. 4. 1797.
Cultivated.

Wedelia montana (Blume) Boerl., Handl. fl. Ned. Ind. 2: 242. 1891.
Verbesina montana Blume, Bijdr. 911. 1826.
var. montana.
E Himalaya.

var. **pilosa** H. Koyama in Acta Phytotax. Geobot. 36: 170. 1985.
E Himalaya, NE India.

Wedelia trilobata (L.) Hitchc. in Annual Rep. Missouri Bot. Gard. 4: 99. 1893; Sivar. & Pradeep in Indian J. Forest. 11: 161, f. 7. 1988.
Silphium trilobatum L., Syst. nat. ed. 10. 232. 1759.
Cultivated.

Wedelia urticaefolia (Blume) DC. in Wight, Contr. bot. India 18. 1834; C.E.C. Fisch. in Rec. Bot. Surv. India 9(1): 102. 1921.
var. urticaefolia.
SW Ghats (Tamilnadu).

var. **wightii** DC. in Wight, Contr. bot. India 18. 1834; Wight, Icon. pl. Ind. orient. t. 1106. 1846; Hook. f., Fl. Brit. India 3: 306. 1881.
E & N to Peninsular India.

Wedelia wallichii Less. in Linnaea 6: 162. 1831; Hook. f., Fl. Brit. India 3: 307. 1881.
Wedelia montana var. *wallichii* (Less.) H. Koyama in Acta Phytotax. Geobot. 36: 168. 1985.
E & NE India, Tropical Himalayas.

WOLLASTONIA DC. ex Decne. in Nouv. Ann. Mus. Hist. Nat. 3: 414. 1834.

Wollastonia biflora (L.) DC., Prodr. 5: 546. 1836; Nicolson et al. in Regnum Veg. 119 (Interpr. Rheede Hort. malab.): 70. 1988.
Verbesina biflora L., Sp. pl. ed 2. 1272. 1763.
Wedelia biflora (L.) DC. in Wight, Contr. bot. India 18. 1834; Wight, Icon. pl. Ind. orient. t. 1108. 1846; Hook. f., Fl. Brit. India 3: 306. 1881.
Wedelia scandens C.B. Clarke, Compos. ind. 136. 1876.
Andaman & Nicobar Islands, E & W Coastal regions, E Himalaya.

XANTHIUM L., Sp. pl. 987. 1753.

Xanthium inaequilaterum DC., Prodr. 5: 523. 1836 ; Vasudeva Rao in J. Econ. Taxon. Bot. 8: 164. 1986.
Andaman & Nicobar Islands.

Xanthium pungens Wallr. in Beitr. Bot. 1 : 231. 1844 emend. Widder in Repert. Spec. Nov. Regni. Veg. Beih. 20: 64. 1923 & in Phyton (Horn) 12: 186. 1967; Maheshw. in Curr. Sci. 42: 328. 1973.
Almost in all parts of India.

Xanthium spinosum L., Sp. pl. 987. 1753; Prain, Bengal pl. 1: 446. 1963 (Repr.).
Introduced.

Xanthium strumarium L., Sp. pl. 987. 1753; Hook. f., Fl. Brit. India 3: 303. 1881.
Xanthium indicum J. König ex Roxb., Fl. ind. (Ed. Carey) 3: 601. 1832; Wight, Icon. pl. Ind. orient. t. 1104. 1846.
Throughout India.

XANTHOPHTHALMUM Sch. Bip., Tanaceteen 17. 1844 ('XANTHOPHTALMUM').

Xanthophthalmum coronarium (L.) P.D. Sell, Fl. Great Britain & Ireland 4: 356. 2006; Grierson & Spring. in Grierson & D.G. Long, Fl. Bhutan (Ed. Spring.) 2(3): 1566. 2001.
Chrysanthemum coronarium L., Sp. pl. 890. 1753; Prain, Bengal pl. 1: 455. 1963 (Repr.).
Dendranthema coronaria (L.) M.R. Almeida, Fl. Maharashtra 3A: 97. 2001.
Cultivated.

YOUNGIA Cass. in Ann. Sci. Nat. (Paris) 23: 88. 1831.

Youngia cineripappa (Babc.) Babc. & Stebbins in Publ. Carnegie Inst. Wash. 484 (Youngia): 60, f. 13. 1937; N.P. Balakr., Fl. Jowai 1: 255. 1981.
Crepis cineripappa Babc. in Univ. Calif. Publ. Bot. 14: 324. 1928.
E Himalaya, E & NE India.

Youngia depressa (Hook. f. & Thomson ex Hook. f.) Babc. & Stebbins in Publ. Carnegie Inst. Wash. 484 (Youngia): 33, f. 2. 1937; R.R. Rao et al., Fl. ind. enum.- Asterac. 92. 1988.
Crepis depressa Hook. f. & Thomson ex Hook. f., Fl. Brit. India 3: 397. 1881.
Lactuca cooperi J. Anthony in Notes Roy. Bot. Gard. Edinburgh 18: 198. 1934.
E Himalaya, NE India.

Youngia fuscipappa Thwaites, Enum. pl. zeyl. 168. 1864.
Crepis fuscipappa (Thwaites) Benth. in Benth. & Hook. f., Gen. pl. 2: 574. 1876; Hook. f., Fl. Brit. India 3: 395. 1881.
E Himalaya, NE India, Tamilnadu.

Youngia gracilipes (Hook. f.) Babc. & Stebbins in Publ. Carnegie Inst. Wash. 484 (Youngia): 40, f. 6. 1937.
Crepis gracilipes Hook. f., Fl. Brit. India 3: 396. 1881.
E Himalaya.

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NW Himalaya.

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