



Ministry of Environment, Forest
and Climate Change



PLANTS OF INDIAN HIMALAYAN REGION

AN ANNOTATED CHECKLIST & PICTORIAL GUIDE

PART- II



Botanical Survey of India

NMHS

PLANTS OF INDIAN HIMALAYAN REGION

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(PART - II)

By

**Bipin Kumar Sinha
Sudhansu Sekhar Dash
Paramjit Singh**

With contributions from

**Dinesh Singh Rawat, Sudipta Kumar Das,
Vikash Kumar, Samiran Panday, Subhajit Lahiri,
Deep Shekhar Das & Arnab Banarjee**



BOTANICAL SURVEY OF INDIA

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Front cover : Panoramic view of Alpine landscape of Western Himalaya at Valley of flowers
Photo credit: Deep Shekhar Das



1. *Spiraea canescens* D. Don
2. *Primula primulina* (Spreng) H. Hara
3. *Ponerorhis chusua* (D. Don) Soo
4. *Pedicularis megalantha* D. Don

Back cover

Photo credit: Subhajit Lahiri

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A



B

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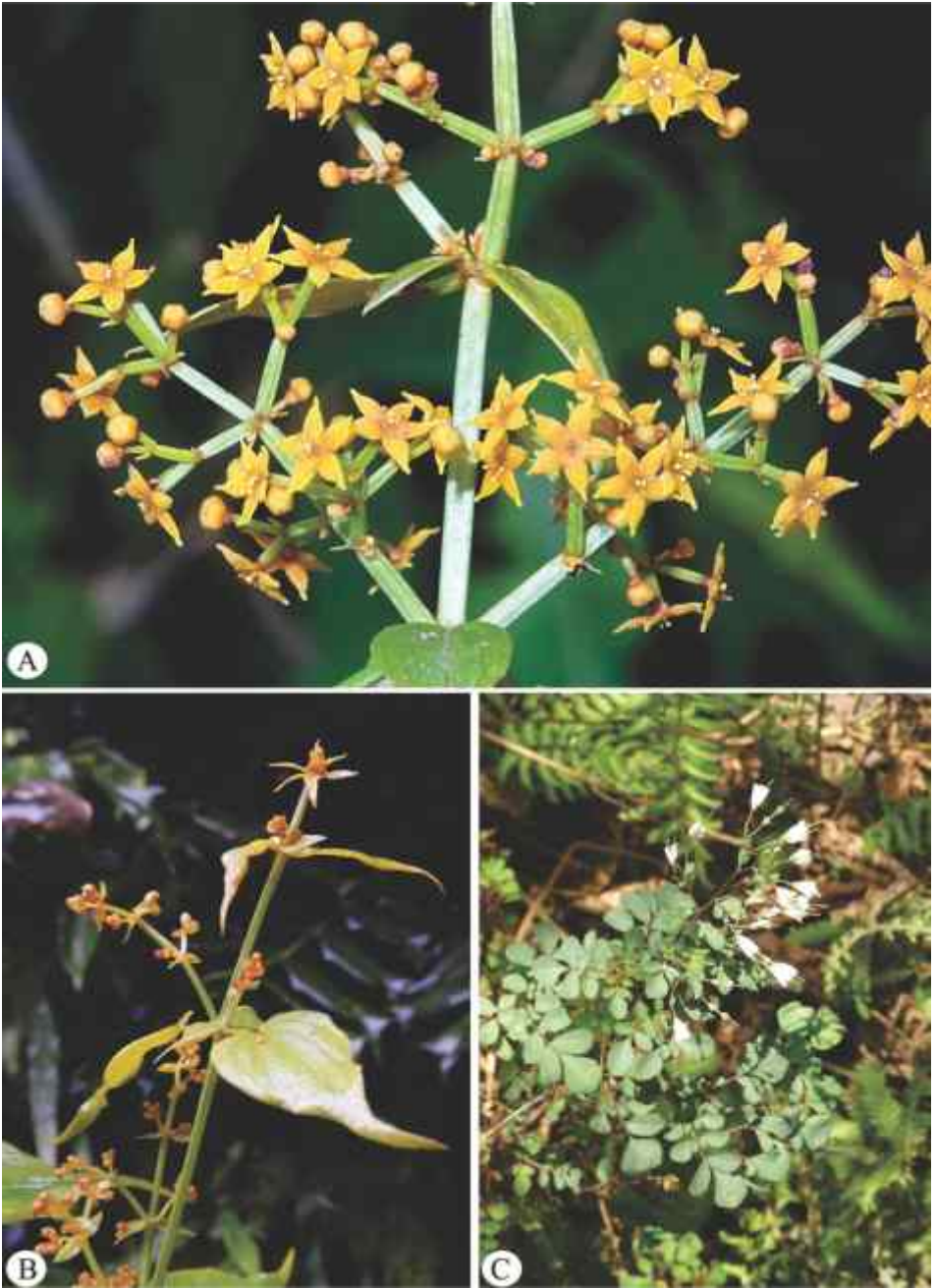


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A



B



C

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A



B

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A



B



C

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Plate 293: *Clerodendrum japonicum* (Thunb.) Sweet

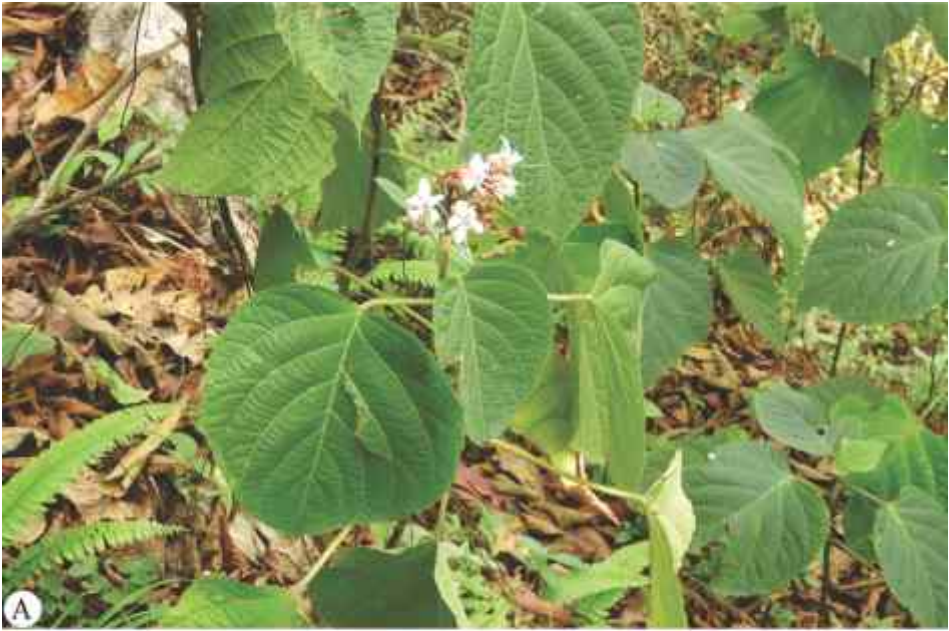


Plate 294: A. *Clerodendrum infortunatum* L.; B. *Gmelina arborea* Roxb.



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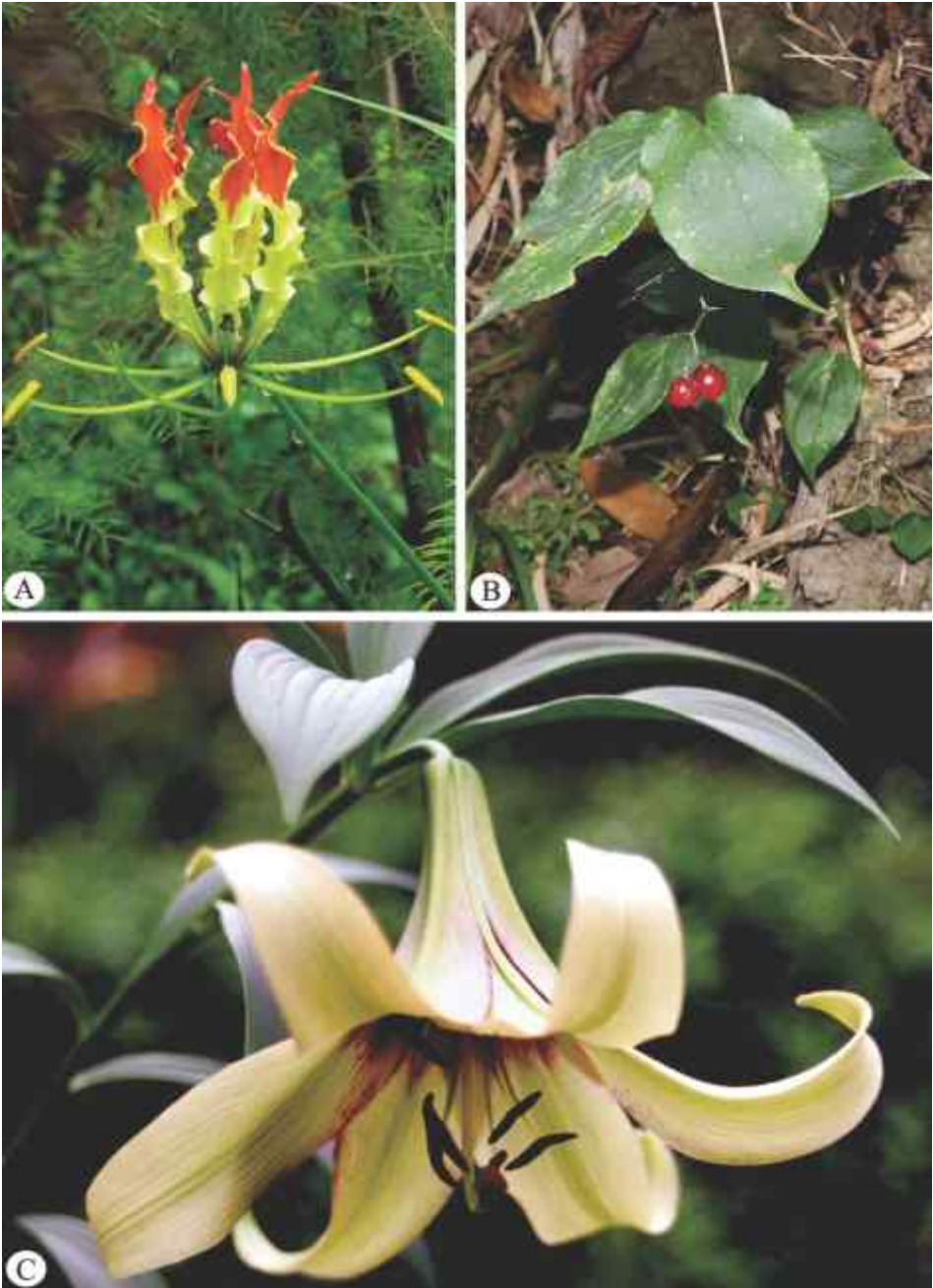


Plate 305: A. *Gloriosa superba* L.; B. *Maianthemum fuscum* (Wall.) LaFrankie;
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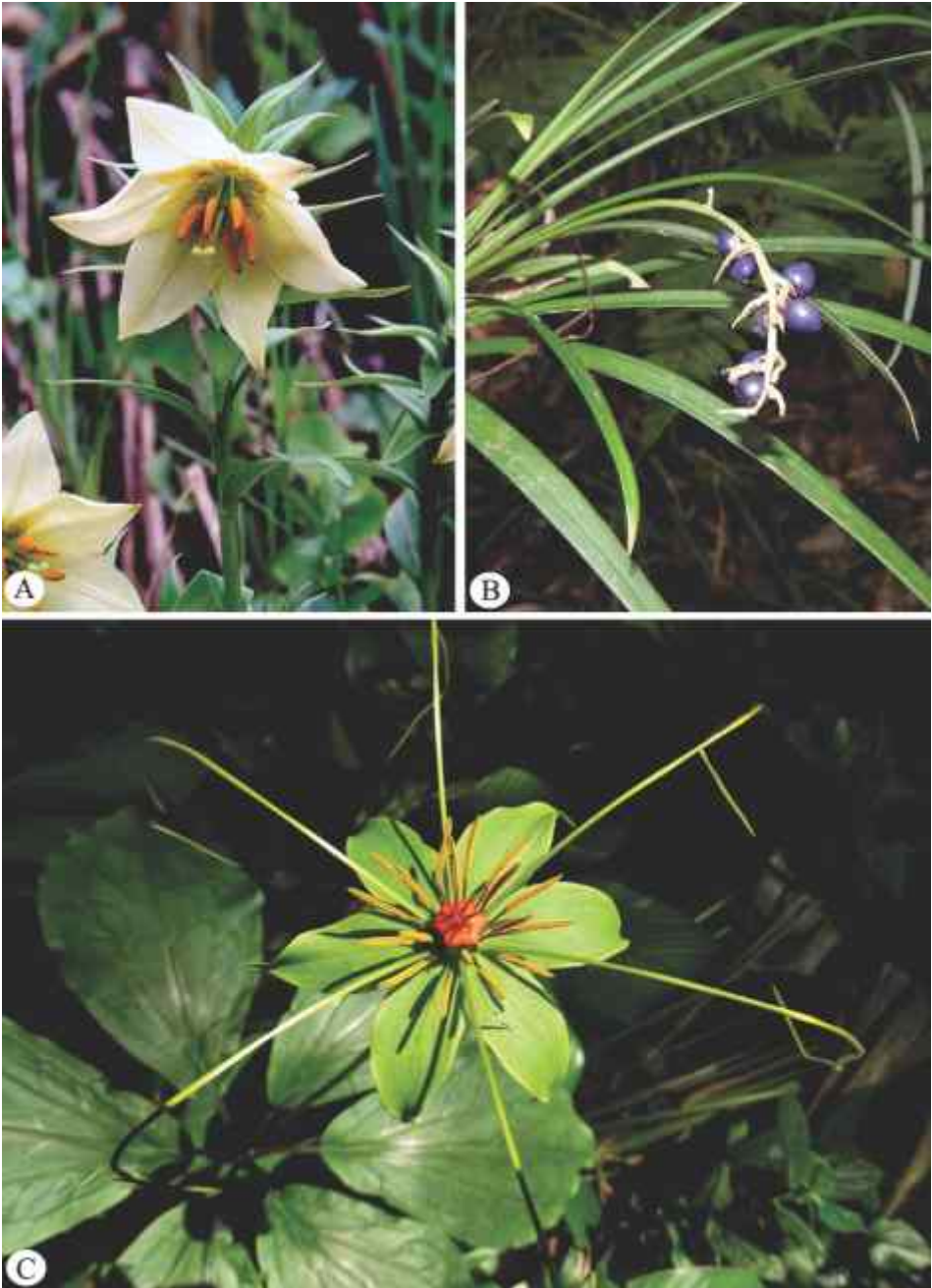


Plate 306: A. *Nomocharis oxypetala* (Royle) E.H.Wilson; B. *Ophiopogon intermedius* D.Don; C. *Paris polyphylla* Sm.

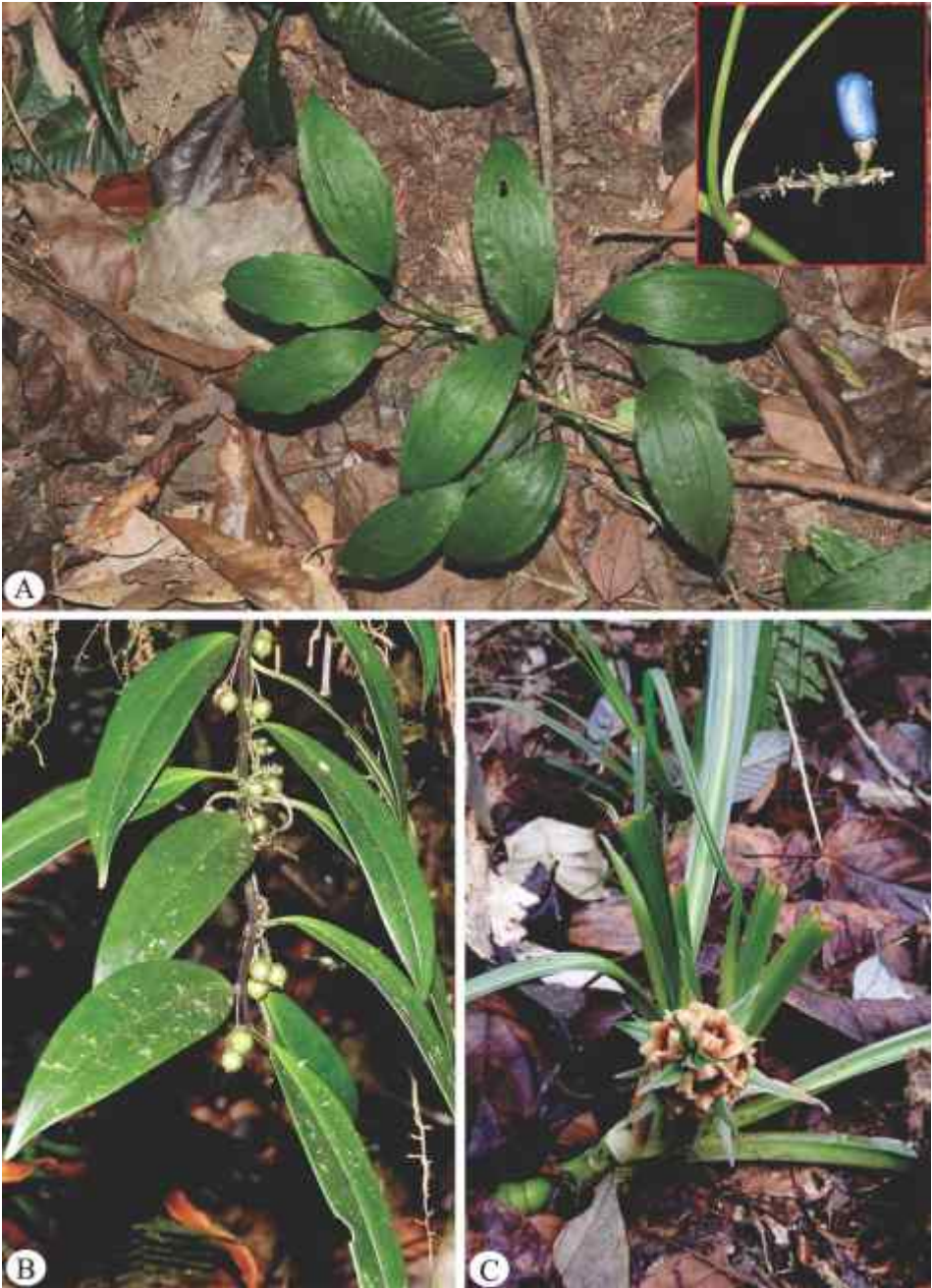


Plate 307: A. *Peliosanthes griffithii* Baker; B. *Polygonatum punctatum* Royle ex Kunth;
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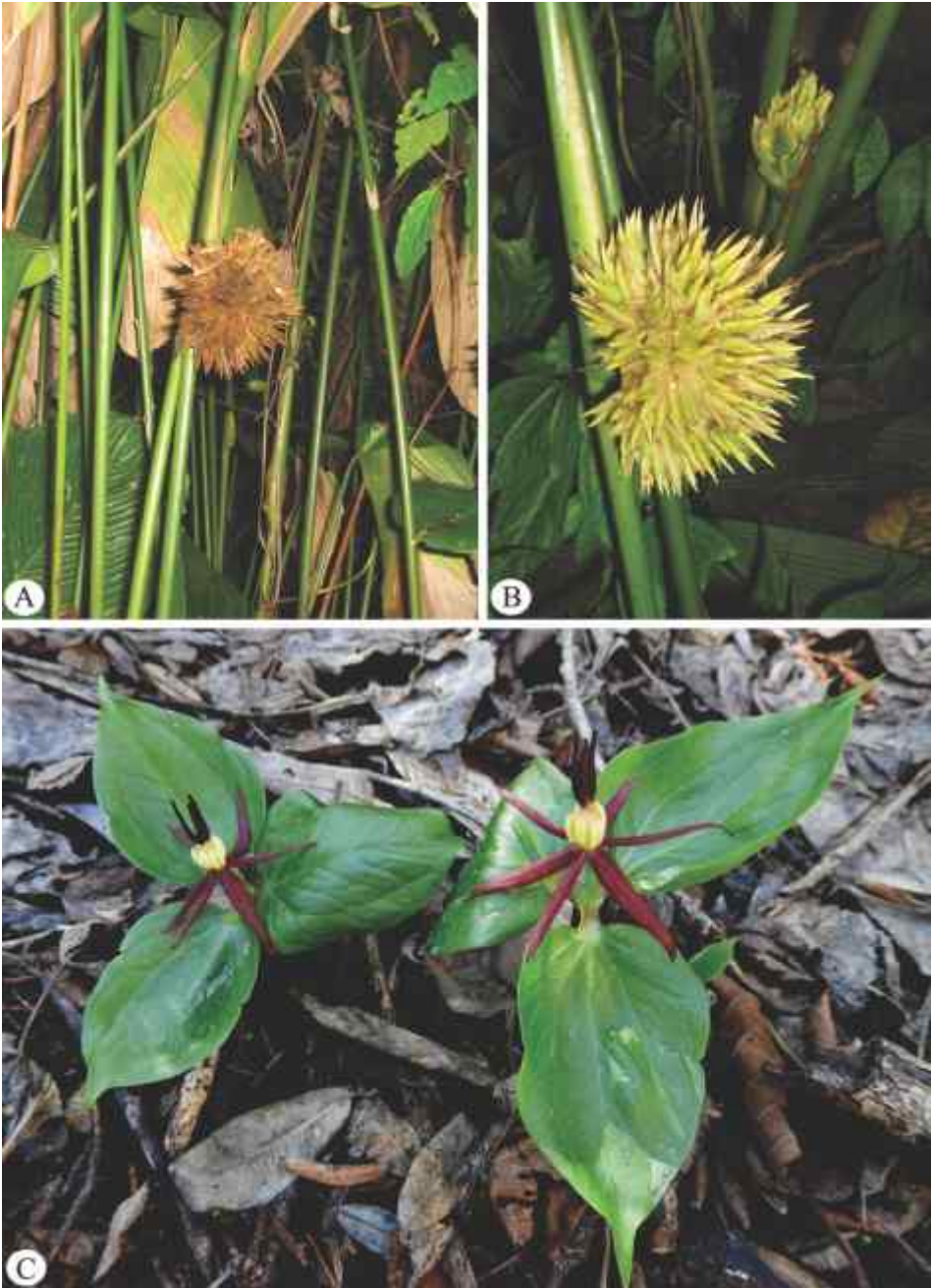


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A



B



C

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Plate 313: A. *Coelogyne ovalis* Lindl.; B. *Corybas himalaicus* (King & Pantl.) Schltr.

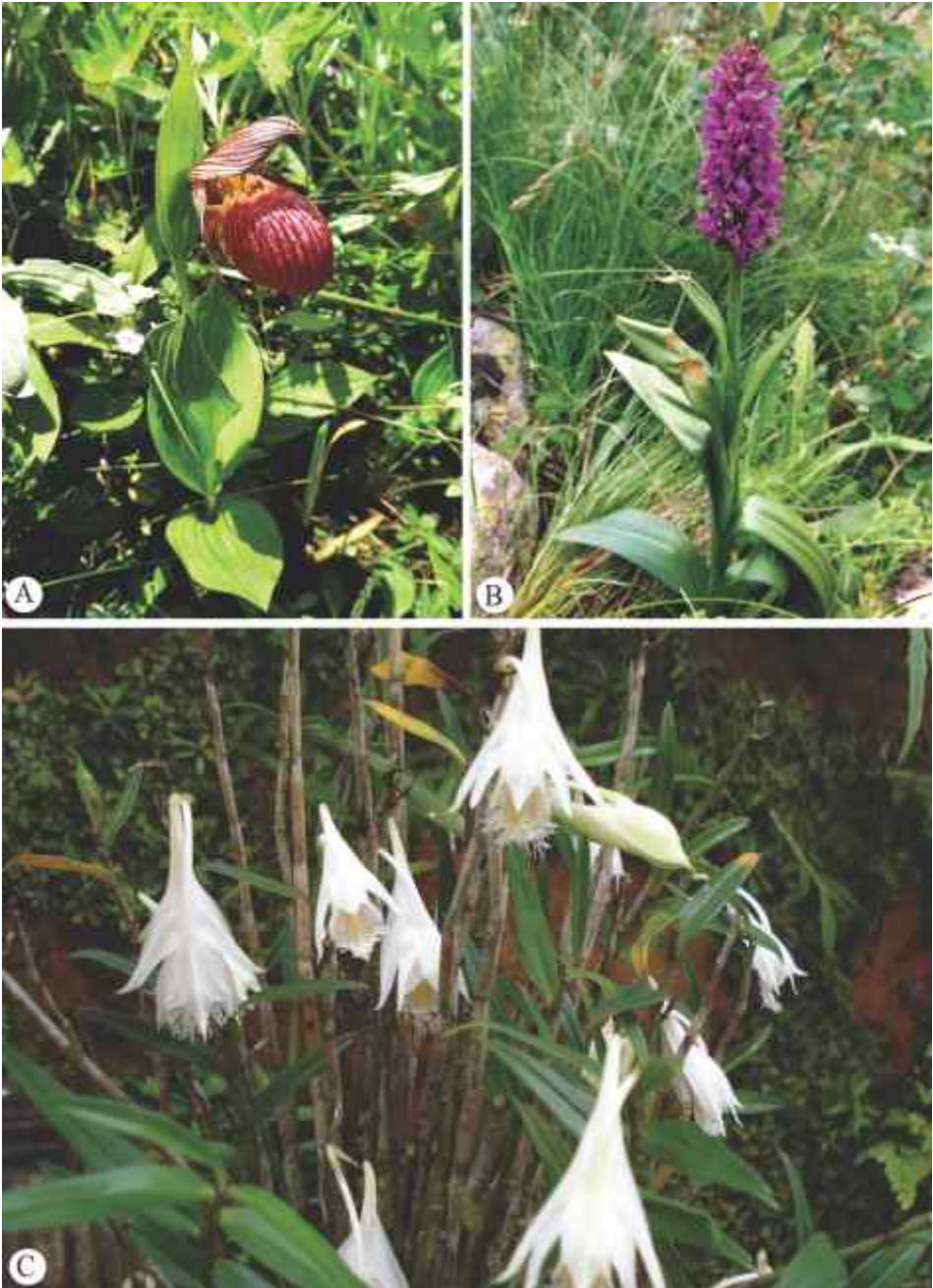


Plate 314: A. *Cypripedium himalaicum* Rolfe; B. *Dactylorhiza hatagirea* (D.Don) Soó;
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A



B



C

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Plate 328: *Ponerorchis chusua* (D. Don) Soó



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Plate 337: A. *Drepanostachyum falcatum* (Nees) Keng.f.; B. *Eragrostis minor* Host; C. *Koeleria macrantha* (Ledeb.) Schult.

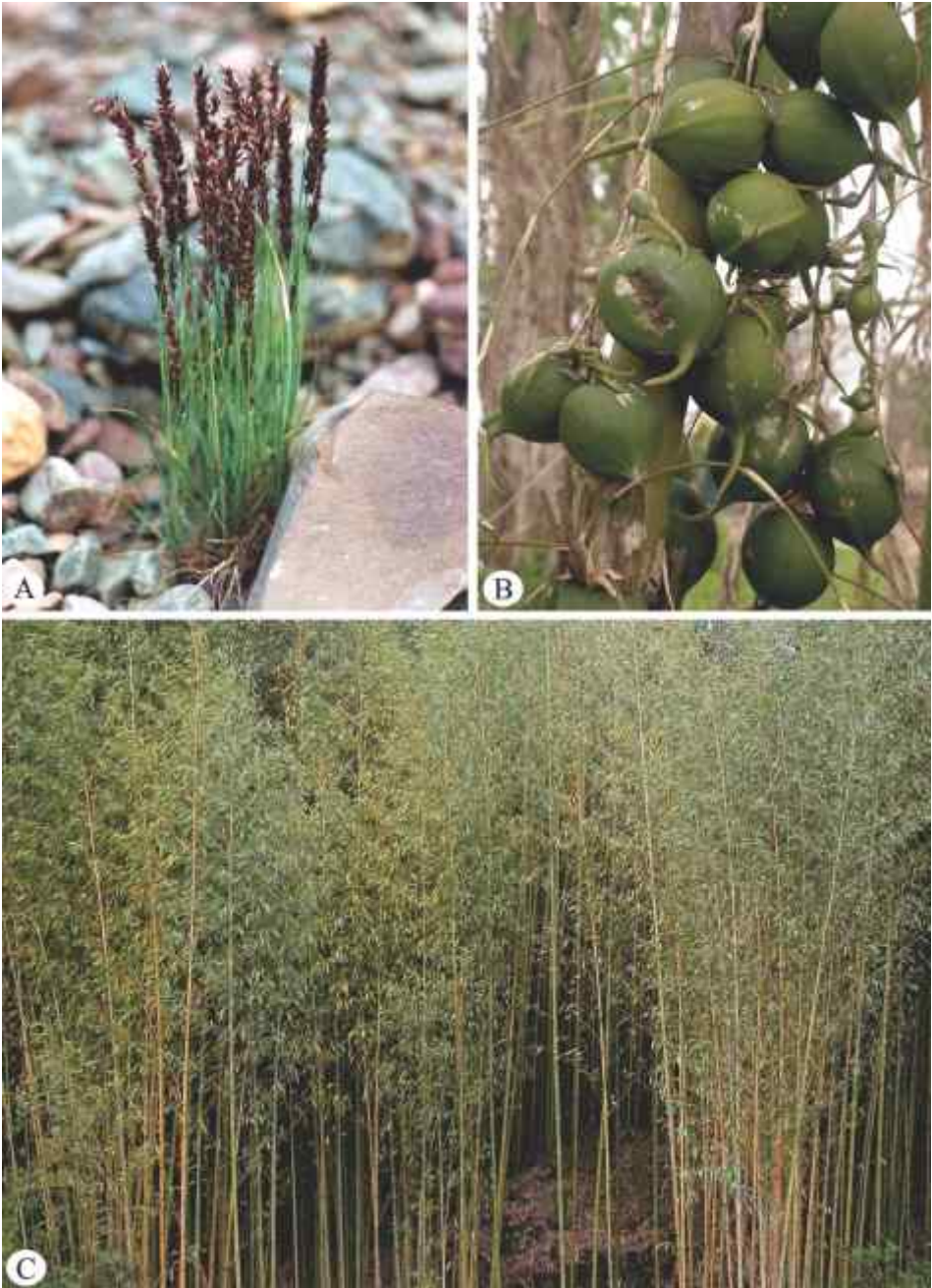


Plate 338: A. *Melica persica* Kunth; B. *Melocanna baccifera* (Roxb.) Kurz; C. *Phyllostachys mannii* Gamble



Plate 339: A. *Schizostachyum dullooa* (Gamble) R.B.Majumdar; B. *Tenaxia cachemyriana* (Jaub. & Spach) N.P. Barker & H.P. Linder; C. *Poa lahulensis* Bor



Plate 340: A. *Smilax ovalifolia* Roxb. ex D. Don; B. *Smilax perfoliata* Lour.

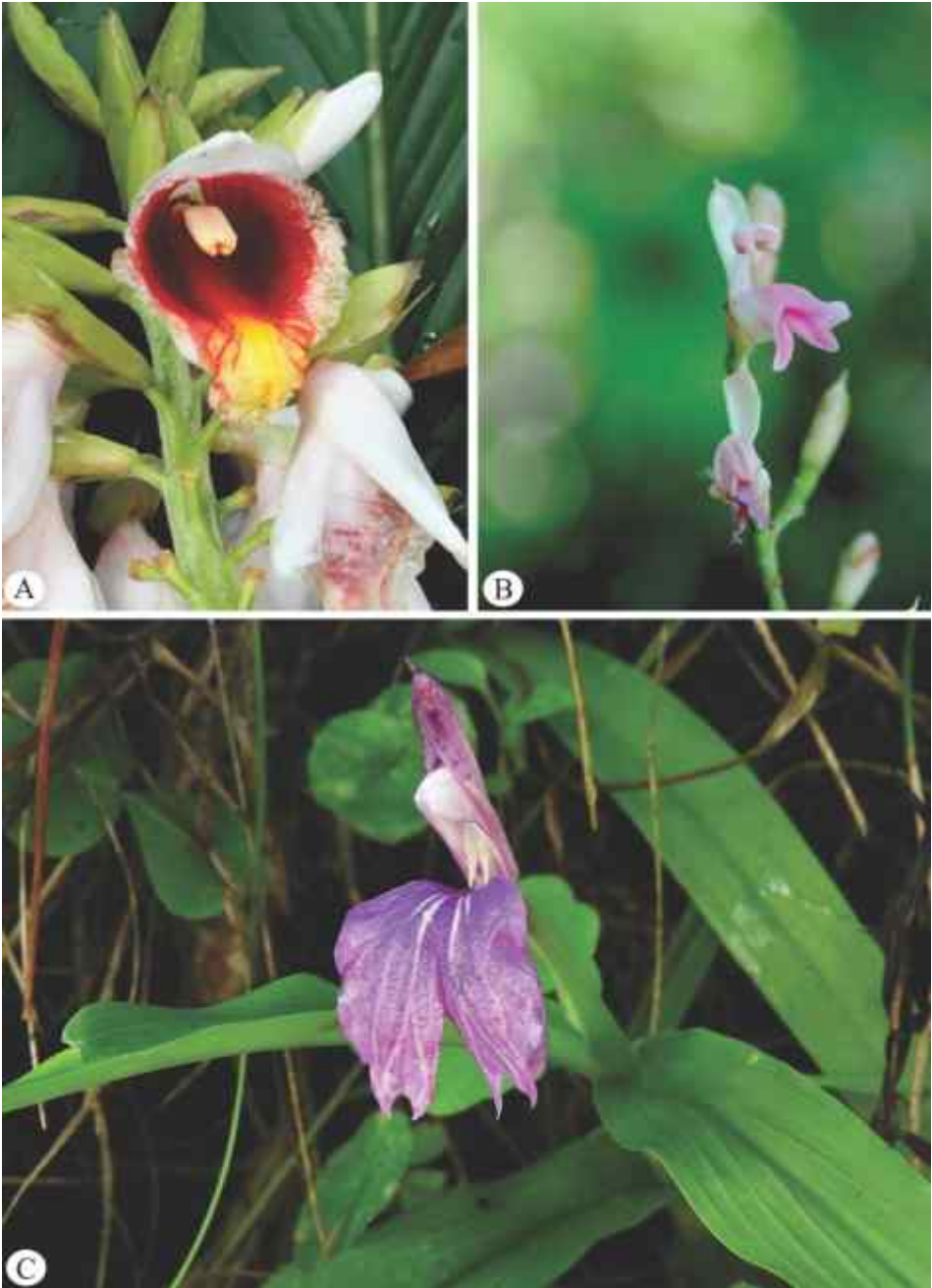


Plate 341: A. *Alpinia malaccensis* (Burm.f.) Roscoe; B. *Alpinia nigra* (Gaertn.) Burt; C. *Roscoea purpurea* Sm.



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Plate 343: A. *Cautleya gracilis* (Sm.) Dandy; B. *Cautleya spicata* (Sm.) Baker; C. *Curcuma angustifolia* Roxb.; D. *Curcuma aromatica* Salisb.



Plate 344: A. *Etlingera linguiformis* (Roxb.) R.M.Sm; B. *Hedychium densiflorum* Wall.;
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Plate 345: A. *Hedychium ellipticum* Buch.-Ham. ex Sm.; B. *Hedychium greenii* W.W.Sm; C. *Hedychium longipedunculatum* Sastry & D.M.Verma



Plate 346: A. *Hedychium rubrum* A.S.Rao & D.M.Verma; B. *Hedychium spicatum* Sm.;
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Plate 348: A. *Larsenianthus assamensis* S.Dey; Mood & S.Choudhury; B. *Larsenianthus careyanus* (Benth.) W.J.Kress & Mood; C. *Zingiber montanum* (J.Koenig) Link ex A. Dietr



Plate 349: A. *Jasminum dispersum* Wall., Roxb.; B. *Circaea repens* Wall. ex Asch. & Magnus



Plate 350: A. *Ananas comosus* (L.) Merr.; B. *Meconopsis paniculata* (D. Don) Prain

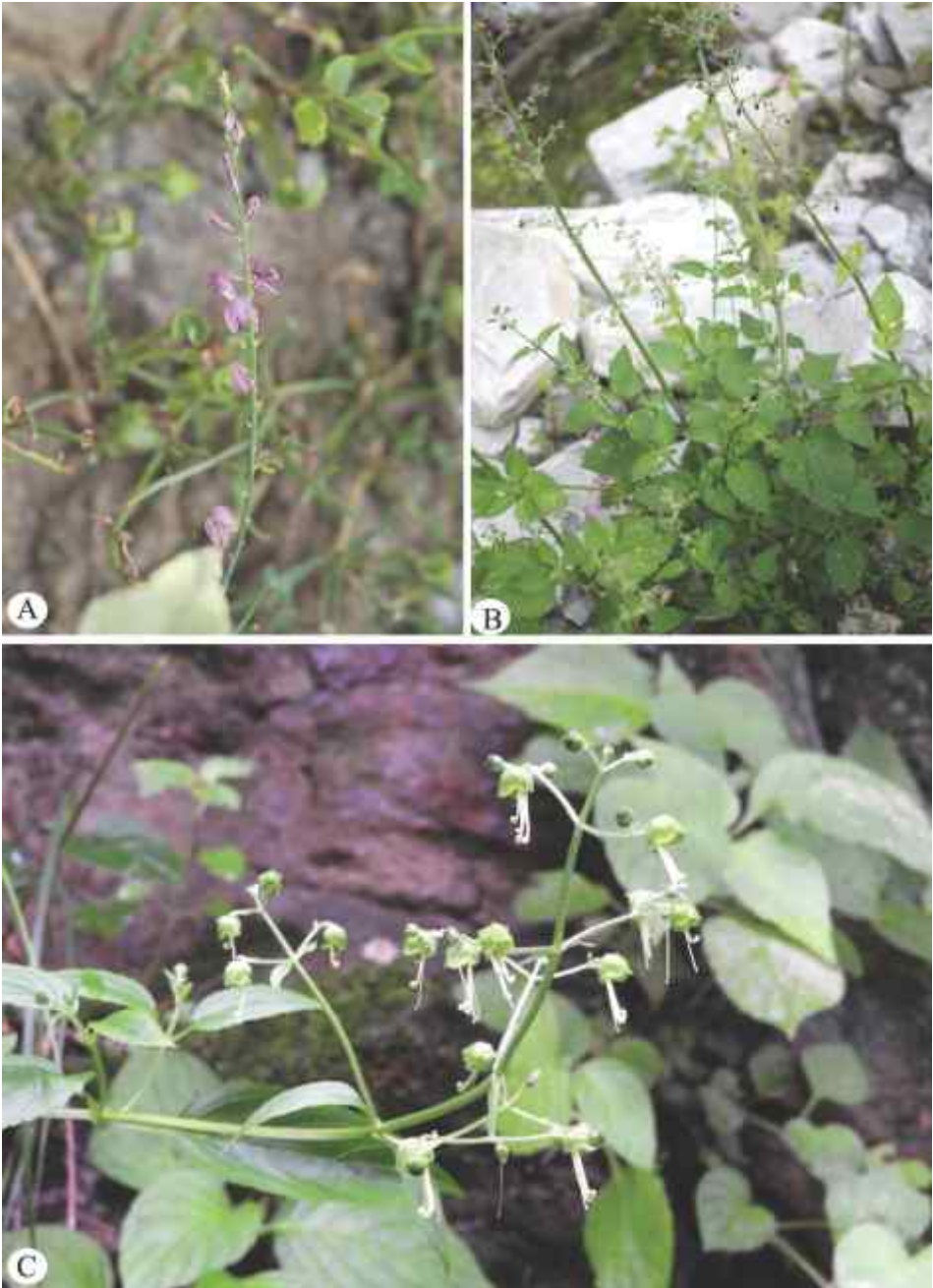


Plate 351: A. *Polygala abyssinica* R.Br. ex Fresen.; B. *Scrophularia edgeworthii* Benth.;
C. *Scrophularia elatior* Wall. ex Benth.



Plate 352: A. *Lagotis kunawurensis* Rupr.; B. *Euphrasia himalayica* Wettst.

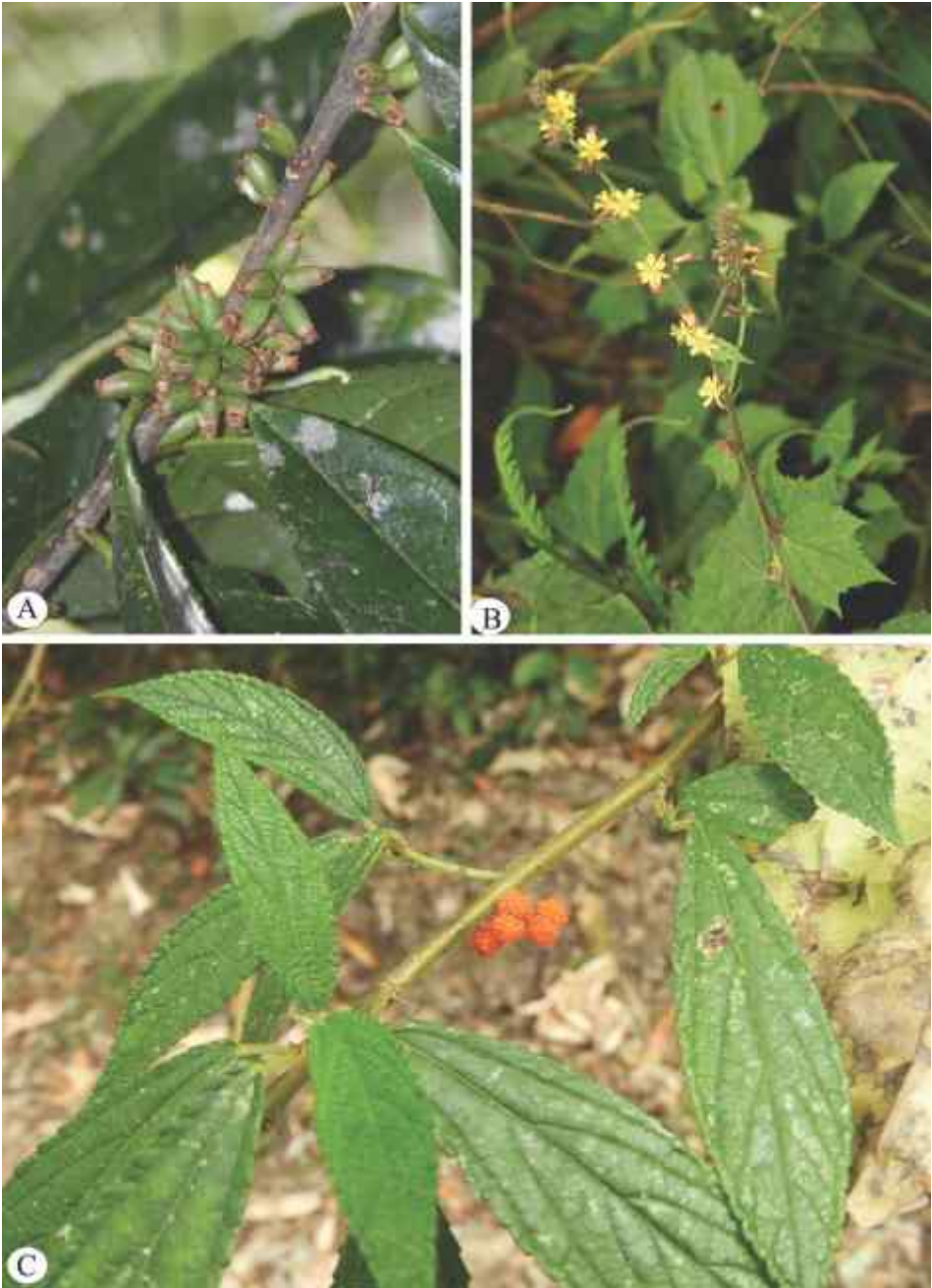


Plate 353: A. *Symplocos glomerata* King ex C.B.Clarke; B. *Triumfetta pilosa* Roth;
C. *Debregeasia longifolia* (Burm.f.) Wedd.



Plate 354: A. *Paris polyphylla* Sm.; B. *Rohdea nepalensis* (Raf.) N.Tanaka



Plate 355: A. & B. *Maianthemum fuscum* (Wall.) LaFrankie; C. *Smilax zeylanica* L.



Plate 356: A. & B. *Molineria crassifolia* Baker; C. *Iris clarkei* Baker ex. Hook.f.

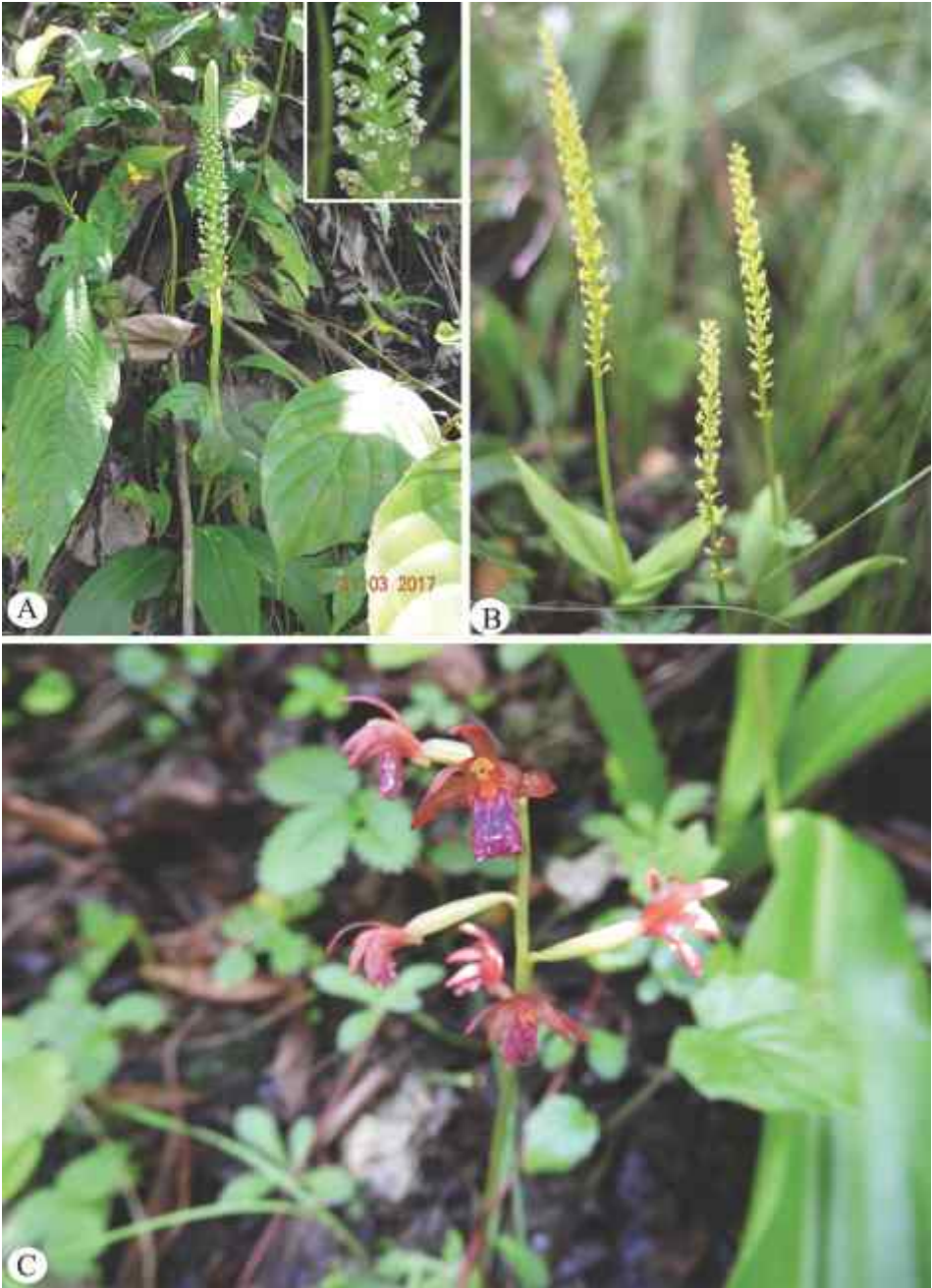


Plate 357: A. *Goodyera procera* (Wall. ex Ker Gawl.) Hook.; B. *Dienia muscifera* Lindl.;
C. *Oreorchis foliosa* (Lindl.) Lindl. var. *indica* (Lindl.) N. Pearce & P.J. Cribb.



Plate 358: *Zingiber zerumbet* (L.) Roscoe ex Sm.

NYSSACEAE
(1 genus; 1 taxon)

Nyssa L.

Nyssa javanica (Blume) Wangerin, Pflanzenr. IV, 220a: 15. 1910. *Agathisanthes javanica* Blume

Distribution: Sikkim, West Bengal (Darjeeling); 610–2438 m.

OCHNACEAE
(1 genus; 4 taxa)

Ochna DC.

Ochna integerrima (Lour.) Merr., Trans. Amer. Philos. Soc. N.s. 24(2): 265. 1935. *Elaeocarpus integerrima* Lour.

Distribution: Arunachal Pradesh; 1000–1500 m. **(Plate 185a)**

Ochna obtusata DC., Ann. Mus. Paris 17: 411, Pl. 2. t. 11. 1811.

Distribution: Arunachal Pradesh; 1000–1500 m.

Ochna obtusata DC. var. **pumila** (Buch.-Ham. ex DC.) Kanis, Blumea 16: 34. 1968. *O. pumila* Buch.-Ham. ex DC.

Distribution: Uttarakhand.

Ochna pumila Buch.-Ham. ex D. Don, Prodr. Fl. Nepal 224. 1825.

Distribution: Sikkim, Uttarakhand.

OLACACEAE
(4 genera; 7 taxa)

Dichapetalum Thouars

Dichapetalum gelonioides (Roxb.) Engl., Pflanzenfam. 3(4): 348. 1896. *Moacurra gelonioides* Roxb.

Distribution: Arunachal Pradesh; 300–800 m.

Erythralum Blume

Erythralum scandens Blume, Bijdr. 921. 1826.

Distribution: Arunachal Pradesh, Sikkim; 1200–1600 m. **(Plate 185b)**

Olox L.

Olox acuminata Wall. ex Benth., Proc. Linn. Soc. Lond. 1: 89. 1840.

Distribution: Arunachal Pradesh; 1000–1500 m.

Olox nana Wall. ex Benth., Proc. Linn. Soc. Lond. 1: 88. 1840.

Distribution: Arunachal Pradesh, Uttarakhand; 100–600 m.

Olox scandens Roxb., Pl. Coromandel 2: 2. 1800.

Distribution: Uttarakhand.

Schoepfia Schreb.

Schoepfia fragrans Wall., Roxb., Fl. Ind. 2: 188. 1824.

Distribution: Arunachal Pradesh; 300–800 m.

Schoepfia jasminodora Siebold & Zucc., Abh. Math.–Phys. Cl. Königl. Bayer. Akad. Wiss. 4(3): 135. 1846.

Distribution: Arunachal Pradesh; 100–1000 m.

OLEACEAE

(10 genera; 56 taxa)

Chionanthus L.

Chionanthus mala-elengi (Dennst.) P.S.Green subsp. **terniflorus** (Wall. & G.Don)

P.S.Green, Kew Bull. 51: 767 1996. *Linociera terniflora* Wall. & G.Don

Distribution: Arunachal Pradesh.

Chionanthus ramiflorus Roxb., Fl. Ind. 1: 106. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); up to 2000 m.

Fraxinus L.

Fraxinus excelsior L., Sp. Pl. 1057. 1753.

Distribution: Himachal Pradesh.

Fraxinus floribunda Wall., Fl. Ind. 1: 150. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000 m.

Fraxinus micrantha Lingelsh., Bot. Jahrb. Syst. 40: 217. 1907.

Distribution: Himachal Pradesh, Uttarakhand.

Fraxinus suaveolens W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 12: 205. 1920.

Distribution: Sikkim, West Bengal (Darjeeling); 2750–3500 m.

Fraxinus xanthoxyloides (G.Don) Wall. ex A.DC., Prodr. 8: 275. 1844. *Ornus xanthoxyloides* G.Don

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling).

Jasminum L.

Jasminum adenophyllum Wall. ex C.B.Clarke, Fl. Brit. India 3: 597. 1882.

Distribution: Arunachal Pradesh; 100–1000 m.

Jasminum arborescens Roxb., Fl. Ind. 1: 94. 1820.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Jasminum attenuatum Roxb. ex DC., Prodr. 8: 309. 1844.

Distribution: Arunachal Pradesh.

Jasminum auriculatum Vahl, Symb. Bot. 3: 1. 1794.

Distribution: Jammu & Kashmir, Uttarakhand.

Jasminum azoricum L., Sp. Pl. 7. 1753.

Distribution: Arunachal Pradesh.

Jasminum caudatum Wall. ex Lindl., Edwards's Bot. Reg. 28: t. 26. 1842.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); upto 100 m.

Jasminum coarctatum Roxb., Fl. Ind. 1: 92. 1820.

Distribution: Arunachal Pradesh, Jammu & Kashmir; upto 300 m.

Jasminum dispersum Wall., Roxb., Fl. Ind. 1: 99. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); above 1000 m. **(Plate 349a)**

Jasminum elongatum (P.J.Bergius) Willd., Sp. Pl. 1: 37. 1797. *Nyctanthes elongata* P.J.Bergius

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 600–1800 m.

Jasminum grandiflorum L., Sp. Pl. ed. 2, 9. 1762.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Jasminum humile L., Sp. Pl. 7. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–3400 m.

Jasminum lanceolarium Roxb., Fl. Ind., ed. 1820 1: 97. 1820.

Distribution: Arunachal Pradesh; upto 2000 m.

Jasminum laurifolium Roxb. ex Hornem., Hort. Bot. Hafn. 112. 1819.

Distribution: Arunachal Pradesh, Uttarakhand; upto 500 m.

Jasminum listeri King ex Gage, Rec. Bot. Surv. India 1: 349. 1901.

Distribution: Arunachal Pradesh; upto 3500 m.

Jasminum mesnyi Hance, J. Bot. 20: 37. 1882.

Distribution: Himachal Pradesh, Uttarakhand.

Jasminum multiflorum (Burm.f.) Andrews, Bot. Repos. 8: t. 496. 1807. *Nyctanthes multiflora* Burm.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 1200 m.

Jasminum nepalense Spreng., Syst. Veg. 4(2): 12. 1827.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2000 m.

Jasminum nervosum Lour., Fl. Cochinch. 20. 1790.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1000 m.

Jasminum officinale L., Sp. Pl. 7. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Jasminum parkeri Dunn, Bull. Misc. Inform. Kew 1920: 69. 1920.

Distribution: Himachal Pradesh. **(Plate 185c)**

Jasminum sambac (L.) Aiton, Hort. Kew. 1: 8. 1789. *Nyctanthes sambac* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Jasminum scandens (Retz.) Vahl, Symb. Bot. 3: 2. 1794. *Nyctanthes scandens* Retz.

Distribution: West Bengal (Darjeeling); 100–500 m.

Jasminum subgladulosum Kurz, J. Bot. 13: 329. 1875.

Distribution: Arunachal Pradesh; 1200–1500 m.

Jasminum subhumile W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 8: 127. 1913.

Distribution: West Bengal (Darjeeling); 1000–2700 m.

Ligustrum L.

Ligustrum compactum (Wall. ex G.Don) Hook.f. & Thomson ex Brandis, Forest Fl. N.W. India 310. 1874. *Olea compacta* Wall. ex G.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; upto 2000 m.

Ligustrum confusum Decne., Nouv. Arch. Mus. 2(2): 24. 1879.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); above 1000 m.

Ligustrum gamblei Ramamoorthy, Fl. Hassan Distr. Karnataka 513. 1976.

Distribution: Arunachal Pradesh, Uttarakhand.

Ligustrum lucidum W.T.Aiton, Hortus Kew. 1: 19. 1810.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ligustrum myrsinites Decne., Nouv. Arch. Mus. 2(2): 33. 1879.

Distribution: Arunachal Pradesh.

Ligustrum nepalense Wall., Fl. Ind. 1: 150. 1820.

Distribution: Arunachal Pradesh, Uttarakhand; upto 2000 m.

Ligustrum ovalifolium Hassk., Cat. Hort. Bot. Bogor. Alt. 119. 1844.

Distribution: Jammu & Kashmir.

Ligustrum robustum (Roxb.) Blume, Mus. Bot. 1: 313. 1851. *Phillyrea robusta* Roxb.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 100–1500 m. (Plate 186a)

Ligustrum sinense Lour., Fl. Cochinch. 19. 1790.

Distribution: Himachal Pradesh, Uttarakhand.

Myxopyrum Blume

Myxopyrum smilacifolium Blume, Mus. Bot. Lugd.–Bat. 1: 320. 1849. Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 700–1000 m. (Plate 186b)

Nyctanthes L.

Nyctanthes arbor-tristis L., Sp. Pl. 6. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Olea L.

Olea dioica Roxb., Fl. Ind. 1: 105. 1820.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1000 m.

Olea europaea L., Sp. Pl. 8. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Olea europaea L. subsp. **cuspidata** (Wall. & G.Don) Cif., Olivicolture 19(5): 96. 1942. *O. cuspidata* Wall. ex G.Don

Distribution: Himachal Pradesh, Uttarakhand.

Olea ferruginea Wall. ex Aitch., J. Linn. Soc., Bot. 8: 67. 1865.

Distribution: Jammu & Kashmir, Uttarakhand.

Olea gamblei C.B. Clarke., Fl. Brit. India 3(9): 613. 1882

Distribution: Sikkim, West Bengal (Darjeeling); 300–1500 m.

Olea paniculata R.Br., Prodr. Fl. Nov. Holl. 528. 1810.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Olea salicifolia Wall. ex G.Don, Gen. Hist. 4: 48. 1837.

Distribution: Arunachal Pradesh.

Osmanthus Lour.

Osmanthus fragrans Lour., Fl. Cochinch. 29. 1790.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 900–3050 m.

Osmanthus insularis Koidz., Bot. Mag. (Tokyo) 28: 150. 1914.

Distribution: Uttarakhand.

Osmanthus suavis King ex C.B. Clarke., Fl. Brit. India 3(9): 607. 1882.

Distribution: Arunachal Pradesh, Sikkim; upto 3100 m.

Schrebera Roxb.

Schrebera swietenoides Roxb., Pl. Coromandel 2: 1. 1799.

Distribution: Uttarakhand.

Syringa L.

Syringa emodi Wall. ex Royle, Ill. Bot. Himal. Mts. 267, t. 65, f. 2. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Syringa persica L., Sp. Pl. 9. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Syringa vulgaris L., Sp. Pl. 9. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir.

ONAGRACEAE
(5 genera; 51 taxa)

Circaea L.

Circaea alpina L., Sp. Pl. 9. 1753.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1600–3300 m.

(Plate 187a)

Circaea alpina L. subsp. **imaicola** (Asch. & Magnus) Kitam., Fl. Afgh. 279. 1960.
C. alpina L. var. *imaicola* Ascher & Magn.

Distribution: Uttarakhand.

Circaea alpina L. subsp. **micrantha** (Skvortsov) Boufford, Ann. Missouri Bot. Gard. 69: 959. 1982. *C. micrantha* Skvortsov

Distribution: Uttarakhand.

Circaea cordata Royle, Ill. Bot. Himal. Mts. 1: 211, pl. 43, f. 1a–l. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Circaea repens Wall. ex Asch. & Magnus, Bot. Zeit. 28: 761. 1870. *C. lutetiana* sensu C.B. Clarke.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1600–3000 m.

(Plate 349b)

Epilobium L.

Epilobium aitchisonii P.H. Raven, Bull. Brit. Mus. Nat. Hist. Bot. 2: 376. 1962.

Distribution: Jammu & Kashmir.

Epilobium amurense Hausskn., Oesterr. Bot. Z. 29: 55. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2100–4000 m.

Epilobium anagallidifolium Lam., Encycl. 2(1): 376. 1786.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 3000 m.

Epilobium angustifolium L., Sp. Pl. 347. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–4000 m.

(Plate 187b)

Epilobium angustifolium L. subsp. **circumvagurn** Mosquin, Brittonia 18: 169. 1966.

Distribution: Arunachal Pradesh, Himachal Pradesh; upto 2400 m.

Epilobium brevifolium D. Don, Prodr. Fl. Nep. 222. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Arunachal Pradesh, Sikkim, Uttarakhand; 1800–2000 m.

Epilobium brevifolium D. Don subsp. **trichoneurum** (Hausskn.) P.H. Raven, Bull. Brit. Mus. Nat. Hist. Bot. 2: 362. 1962. *Epilobium trichoneurum* Hausskn.

Distribution: Arunachal Pradesh, Uttarakhand; 1300–1600 m.

Epilobium chitralense P.H.Raven, Bull. Brit. Mus. Bot. 2:379, t. 39A. 1962.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3200–4000 m.

Epilobium clarkeanum Hausskn., Monogr. Epilobium 220, t. 9, f. 53. 1884.

Distribution: Himachal Pradesh, Sikkim; 3500–4700 m.

Epilobium conspersum Hausskn., Oesterr. Bot. Z. 29: 51. 1879.

Distribution: Sikkim; 3050–4650 m.

Epilobium cylindricum D.Don, Prodr. Fl. Nep. 222. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1600–3200 m.

Epilobium glaciale P.H.Raven, Bull. Brit. Mus. Nat. Hist. Bot. 2: 368, t. 34. 1962.

Distribution: Jammu & Kashmir, Uttarakhand.

Epilobium gouldii P.H. Raven, Bull. Brit. Mus. Nat. Hist. Bot. 2: 371. 1962.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3400–4500 m.

Epilobium hirsutum L., Sp. Pl. 1: 347. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3600–4500 m.

Epilobium ladakhianum T.K.Paul, Bull. Bot. Surv. India 39: 197. 1997.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Epilobium latifolium L., Sp. Pl. 347. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

(Plate 187c)

Epilobium latifolium L. subsp. **speciosum** (Decne.) P.H.Raven, Bull. Brit. Mus. Nat. Hist. 2 (12): 349. 1962. *E. speciosum* Decne.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2300–4800 m.

Epilobium laxum Royle, Ill. Bot. Himal. Mts. 1: 211–212, pl. 43, f. 2. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–4500 m.

Epilobium leiophyllum Hausskn., Oesterr. Bot. Zeit. 29: 52. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3330–4100 m.

Epilobium minutiflorum Hausskn., Oesterr. Bot. Z. 29: 55. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Epilobium palustre L., Sp. Pl. 1: 495. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–4700 m.

Epilobium praviflorum Schreb., Spic. Fl. Lips. 146. 155. 1771.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.

Epilobium roseum (Schreb.) Schreb., Spic. Fl. Lips. 147. 155. 1771. *Chamaenerion roseum* Schreb.

Distribution: Himachal Pradesh, Jammu & Kashmir; 2300–4700 m.

Epilobium royleanum Hausskn., Oesterr. Bot. Z. 29(2): 55. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–4100 m.

Epilobium sikkimense Hausskn., Oesterr. Bot. Z. 29(2): 52. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.; 2000–3750 m.

Epilobium speciosum Decne., Voy. Inde 4: 57. 1841.

Distribution: Uttarakhand.

Epilobium stracheyanum Hausskn., Monogr. Epilobium 214. 1884.

Distribution: Uttarakhand.

Epilobium tibetanum Hausskn., Oesterr. Bot. Z. 29(2): 53. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–4500 m.

Epilobium trichophyllum Hausskn., Oesterr. Bot. Z. 29: 53. 1879.

Distribution: Sikkim; 3050–3650 m.

Epilobium wattianum Hausskn., Monogr. Epilobium 204. 1884.

Distribution: Uttarakhand.

Epilobium wallichianum Hausskn., Oesterr. Bot. Z. 29: 56. 1879.

Distribution: Sikkim, Uttarakhand; 2400–2700 m. (Plate 187d)

Epilobium williamsii P.H. Raven, Bull. Brit. Mus. Nat. Hist. Bot. 2: 378. 1962.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2300–4700 m.

Ludwigia L.

Ludwigia adscendens (L.) H.Hara, J. Jap. Bot. 28: 291. 1953. *Jussiaea adscendens* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 200 m.

Ludwigia hyssopifolia (G.Don) Exell, Gracia de Orta 5: 471. 1957. *Jussiaea hyssopifolia* G. Don

Distribution: Arunachal Pradesh; 200–500 m.

Ludwigia octovalvis (Jacq.) P.H.Raven, Kew Bull. 15: 476. 1961. *Oenothera octovalvis* Jacq.

Distribution: Uttarakhand.

Ludwigia octovalvis (Jacq.) P.H. Raven subsp. *sessiliflora* (Micheli) P.H. Raven, Kew Bull. 15: 476. 1962. *Jussiaea octonervia* Lam. f. *sessiliflora* Micheli.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 200–900 m.

Ludwigia perennis L., Sp. Pl. 119. 1753.

Distribution: Sikkim, Uttarakhand; 3050–3650 m.

Ludwigia prostrata Roxb., Fl. Ind. 1: 441. 1820.

Distribution: Arunachal Pradesh, Uttarakhand. (Plate 188a)

Oenothera L.**Oenothera affinis** Cambess., Fl. Bras. Merid. 2: 269. 1830.

Distribution: Himachal Pradesh, 2100–3400 m.

Oenothera biennis L., Sp. Pl. 1: 346. 1753.

Distribution: Himachal Pradesh, Uttarakhand; 2100–3400 m.

Oenothera drummondii Hook., Bot. Mag. 61: pl. 3361. 1834.

Distribution: Uttarakhand.

Oenothera odorata Jacq., Icon. Pl. Rar. 3: 3, t: 456. 1795.

Distribution: Uttarakhand.

Oenothera rosea L'Hér. ex Aiton, Hort. Kew. ed. 1, 2: 3. 1789.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 700–3400 m.

Oenothera stricta Ledeb. ex Link, Enum. Hort. Berol. Alt. 1: 377. 1821.

Distribution: Uttarakhand.

Oenothera tetraptera Cav., Icon. 3: 40. 1796.

Distribution: Himachal Pradesh; 2500–3400 m.

Raimannia Rose ex Britton & A. Br.**Raimannia drummondii** Rose, U. S. Dept. Agri. Con- triv. Nat. Herb. 8: 330. 1905.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3500–4800 m.

OPILIACEAE
(1 genus; 1 taxon)

Lepionurus Blume**Lepionurus sylvestris** Blume, Bijdr. 1148. 1827.

Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

OROBANCHACEAE
(8 genera; 24 taxa)

Aeginetia L.**Aeginetia indica** L., Sp. Pl. 632. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1500 m.

Aeginetia indica L. var. **alba** Santapau, Kew Bull. 1948: 491. 1949.

Distribution: Uttarakhand.

Aeginetia pedunculata Wall., Pl. Asiat. Rar. 3: 13. 1831.

Distribution: Arunachal Pradesh, Sikkim; 100–1500 m.

Boschniakia C.A.Mey. ex Bong.

Boschniakia himalaica Hook.f. & Thomson, Fl. Brit. India 4: 327. 1884.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–1800 m.

Christisonia Gardner

Christisonia calcarata Wight, Icon. Pl. Ind. Orient. 4: t. 1426. 1849.

Distribution: Jammu & Kashmir.

Christisonia hookeri Clarke, Fl. Brit. India 4: 321. 1884.

Distribution: Sikkim, West Bengal (Darjeeling); 600–1200 m.

Cistanche Hoffmanns. & Link

Cistanche tubulosa (Schenk) Wight, Icon. Pl. Ind. Orient. 4: t. 1420 bis. 1848.

Phelipaea tubulosa Schenk

Distribution: Jammu & Kashmir.

(Plate 188b)

Gleadovia Gamble & Prain

Gleadovia ruborum Gamble & Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 69(2): 489. 1901.

Distribution: Uttarakhand; 800–1500 m.

Lathraea L.

Lathraea purpurea H.A.Cummins ex King, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64(2): 137. 1895.

Distribution: Sikkim; 3600–3900 m.

Lathraea squamaria L., Sp. Pl. 606. 1753.

Distribution: Himachal Pradesh, Sikkim; 800–1500 m.

Orobanche L.

Orobanche aegyptiaca Pers., Syn. Pl. 2: 181. 1806. *O. indica* Buch.–Ham. ex Roxb.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 1200–3000 m.

Orobanche alba Stephan ex Willd., Sp. Pl. 3: 450. 1800. *O. epithymum* DC.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1500–3000 m.

(Plate 188c)

Orobanche amoena C. A.Mey., Fl. Altaic. 2: 457. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Orobanche caesia Rchb., Iconogr. Bot. Pl. Crit. 7: 48. 1829.

Distribution: Himachal Pradesh; 1500–3000 m.

Orobanche cernua Loefl., Iter Hispan. 152. 1758.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 800–1500 m.

Orobanche clarkei Hook.f., Fl. Brit. India 4(11): 326. 1884.

Distribution: Jammu & Kashmir; 2743 m.

Orobanche hansii A.Kern., Nov. Pl. Spec. Decas 2: 15. 1870.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Orobanche kashmirica C.B. Clarke ex Hook.f., Fl. Brit. India 4: 324. 1884.

Distribution: Jammu & Kashmir; 3353 m.

Orobanche lanuginosa (C.A.Mey.) Beck ex Krylov, Trudy Obshch. Estestvoisp. Imp. Kazansk. Univ. 9: 202. 1881. *Phelipaea lanuginosa* C.A.Mey.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Orobanche orientalis Beck, Monogr. Orobanche 1: 110. 1890.

Distribution: Jammu & Kashmir; 1700–2300 m.

Orobanche psila C.B. Clarke, Fl. Brit. India 4: 327. 1884.

Distribution: Jammu & Kashmir; 1700–2743 m.

Orobanche purpurea Jacq., num. Stirp. Vindob. 108. 1762.

Distribution: Jammu & Kashmir; 1700–2300 m.

Orobanche solmsii C.B. Clarke, Fl. Brit. India 4(11): 325. 1884.

Distribution: Bhutan, Jammu & Kashmir, Sikkim, Uttarakhand; 2100–3900 m.

(Plate 189a)

Pterygiella Oliv.

Pterygiella bartschioides Hand–Mazz., Akad. Wiss. Wien, Math.–Naturwiss. Kl., Anz. 60: 186 1923.

Distribution: Arunachal Pradesh; 3600 m.

OXALIDACEAE

(2 genera; 14 taxa)

Biophytum DC.

Biophytum reinwardtii (Zucc.) Klotzsch, Reise Mosamb. Bot. 1: 85. 1861. *Oxalis reinwardtii* Zucc.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–3000 m.

Biophytum reinwardtii (Zucc.) Klotzsch var. **metziana** Edgew. & Hook.f., Fl. Brit. India 1(2): 438. 1874.

Distribution: Uttarakhand.

Biophytum sensitivum (L.) DC., Prodr. 1. 690. 1824. *O. sensitive* L.

Distribution: Jammu & Kashmir, Uttarakhand.

Biophytum umbraculum Welw., Apont. 55: 590. 1859.

Distribution: Uttarakhand.

Oxalis L.

Oxalis acetosella L., Sp. Pl. 435. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Oxalis corniculata L., Sp. Pl. 435. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–2800 m.

(Plate 189b)

Oxalis debilis Kunth var. **corymbosa** (DC.) Lour., Ann. Missouri Bot. Gard. 67: 840. 1980. *O. corymbosa* DC.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1600 m.

Oxalis dehradunensis Raizada, Fl. Upper Gang. Plain 37. 1976.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Oxalis deppei Lodd. ex Sweet, Brit. Fl. Gard. II, 1: t. 96. 1831.

Distribution: Himachal Pradesh, Uttarakhand.

Oxalis griffithii Edgew. & Hook.f., Fl. Brit. India 1(2): 436. 1874.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2500–2700 m.

Oxalis lasiandra Zucc., Allg. Gartenzeitung 2: 245. 1834.

Distribution: Uttarakhand.

Oxalis pescaprae L., Sp. Pl. 434. 1753.

Distribution: Himachal Pradesh.

Oxalis richardiana Babu, Herb. Fl. Dehra Dun. 104. 1977.

Distribution: Uttarakhand.

Oxalis tetraphylla Cav. Icon. 3: 19. 1795.

Distribution: Himachal Pradesh.

PAEONIACEAE

(1 genus; 1 taxon)

Paeonia L.

Paeonia emodi Royle, Ill. Bot. Himal. Mts. 57. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

PAPAVERACEAE

(6 genera; 31 taxa)

Argemone L.

Argemone mexicana L., Sp. Pl. 508. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1200 m.

Argemone ochroleuca Sweet, Brit. Fl. Gard. 3: t. 242. 1828.

Distribution: Jammu & Kashmir, Uttarakhand.

Dicranostigma Hook.f. & Thomson

Dicranostigma lactuoides Hook.f. & Thomson, Fl. Ind. 1: 255. 1855.

Distribution: Uttarakhand.

Eschscholzia Cham.

Eschscholzia californica Cham., Horae Phys. Berol. 74. 1820.

Distribution: Jammu & Kashmir, Uttarakhand.

Hypecoum L.**Hypecoum leptocarpum** Hook.f. & Thomson, Fl. Ind. 1: 276. 1855.

Distribution: Himachal Pradesh, Sikkim; 2750–4000 m.

Hypecoum pendulum L., Sp. Pl. 124. 1753.

Distribution: Jammu & Kashmir.

Meconopsis Vig.**Meconopsis aculeata** Royle, Ill. Bot. Himal. Mts. 1: 67, pl. 15. 1834.Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4050 m. (**Plate 190a**)**Meconopsis bella** Prain, J. Asiat. Soc. Bengal 63(2): 82. 1894.

Distribution: Sikkim; 3700–4600m.

Meconopsis betonicifolia Franch., Pl. Delavay. 1: 42, pl. 12. 1889.

Distribution: Arunachal Pradesh; 1500–3000 m.

Meconopsis bikarmii Aswal, Indian J. Forest. 8: 84. 1985.

Distribution: Himachal Pradesh.

Meconopsis discigera Prain, Ann. Bot. (Oxford) 20: 356, pl. 24, f. 12. 1906.

Distribution: Sikkim; 3600–4100m.

Meconopsis grandis Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64(2): 320. 1895.

Distribution: Sikkim; 3650–4200m.

Meconopsis horridula Hook.f. & Thomson, Fl. Ind. 1: 252. 1855.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 3800–4700m.

Meconopsis latifolia (Prain) Prain, Bull. Misc. Inform. Kew 1915: 146. 1915. *M. sinuata* Prain var. *latifolia* Prain

Distribution: Arunachal Pradesh, Jammu & Kashmir.

Meconopsis lyrata (H.A.Cummins & Prain) Fedde ex Prain, Bull. Misc. Inform. Kew 1915: 142. 1915. *Cathcartia lyrata* H.A.Cummins & Prain

Distribution: Sikkim; 3000–4500m.

Meconopsis neglecta G. Taylor, Gen. Meconopsis 102. 1934.

Distribution: Jammu & Kashmir.

Meconopsis paniculata (D.Don) Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 316. 1896. *Papaver paniculatum* D.DonDistribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000–4000 m. (**Plate 350bg**)**Meconopsis robusta** Hook.f. & Thomson, Fl. Ind. 1: 253. 1855.

Distribution: Himachal Pradesh, Uttarakhand.

Meconopsis simplicifolia (D.Don) Walp., Repert. Bot. Syst. 1: 110. 1842. *Papaver simplicifolium* D.Don

Distribution: Arunachal Pradesh, Sikkim; 2000–3500 m.

(**Plate 190b**)

Meconopsis sinuata Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64(2): 314. 1896.
Distribution: Sikkim; 3800–4400m.

Meconopsis superba King ex Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64(2): 317. 1896.

Distribution: Sikkim.

Meconopsis villosa (Hook.f.) G.Taylor., Gen. Meconopsis 28: 1934. *Cathcartia villosa* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). 2700–4300 m.

Papaver L.

Papaver dubium L., Sp. Pl. 1196. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Papaver dubium L. subsp. **glabrum** (Royle) Kadereit, Notes Roy. Bot. Gard. Edinburgh 45: 247. 1988. *Papaver glabrum* Royle

Distribution: Uttarakhand.

Papaver hybridum L., Sp. Pl. 506. 1753.

Distribution: Jammu & Kashmir.

Papaver kachroianum Tabinda, Dar & Naqshi, Pak. J. Bot. 42: 58. 2010.

Distribution: Jammu & Kashmir; 1600 m.

Papaver macrostomum Boiss. & A. Huet, Diagn. Pl. Orient. II, 5: 15. 1856.

Distribution: Jammu & Kashmir; 1700 m.

Papaver nudicaule L., Sp. Pl. 1: 507. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand

Papaver pamporicum Tabinda, Dar & Naqshi, Pak. J. Bot. 42: 58. 2010.

Distribution: Jammu & Kashmir; 1600 m.

Papaver rhoeas L., Sp. Pl. 507. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1750 m.

Papaver somniferum L., Sp. Pl. 508. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2285–3050m.

PARNASSIACEAE

(1 genus; 9 taxa)

Parnassia L.

Parnassia chinensis Franch., Bull. Soc. Bot. France 44: 252–253. 1897.

Distribution: Sikkim; 2500–4400 m.

(Plate 191a)

Parnassia cooperi W.E.Evans, Notes Roy. Bot. Gard. Edinburgh 13(63–64): 172–173. 1921.

Distribution: Sikkim; 3000 m.

Parnassia kumaonica Nekrass., Bull. Soc. Bot. France 74: 646. 1928.

Distribution: Himachal Pradesh, Uttarakhand.

Parnassia laxmannii Pall. ex Schult., Syst. Veg. 6: 696. 1820.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Parnassia nubicola Wall., Numer. List n. 1246. 1829.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3200–4350 m. **(Plate 191b)**

Parnassia palustris L., Sp. Pl. 1: 273. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Parnassia pusilla Wall. ex Arn., Companion Bot. Mag. 2: 315. 1837.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 1000–2000 m.

Parnassia tenella Hook.f. & Thomson, J. Linn. Soc., Bot. 2: 80–81. 1858.

Distribution: Sikkim.

Parnassia wightiana Wall. ex Wight & Arn., Prodr. Fl. Ind. Orient. 1: 35. 1834.

Distribution: Sikkim, Uttarakhand; 2500–4700 m.

PASSIFLORACEAE

(3 genera; 12 taxa)

Adenia Forssk.

Adenia trilobata (Roxb.) Engl., Bot. Jahrb. 14: 376. 1891. *Modecca trilobata* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 700–2000 m.

Adenia cardiophylla (Mast.) Engl., Bot. Jahrb. Syst. 14: 376. 1891. *Modecca cardiophylla* Mast.

Distribution: Arunachal Pradesh, Sikkim; 1200–1800 m. **(Plate 192)**

Decaloba (DC.) M. Roem.

Decaloba leschenaultii (DC.) M. Roem., Fam. Nat. Syn. Monogr. 2: 160. 1846. *Passiflora leschenaultii* DC.

Distribution: Arunachal Pradesh; 700–2000 m.

Passiflora L.

Passiflora caerulea L., Sp. Pl. 959. 1753.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3500–4800 m.

Passiflora edulis Sims, Bot. Mag. 45: t. 1989. 1818.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand. **(Plate 193a)**

Passiflora foetida L., Sp. Pl. 959. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 700–2000 m.

Passiflora jugorum W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9(42): 115–116. 1916.

Distribution: Arunachal Pradesh.

Passiflora morifolia Mast., Fl. Bras. 13(1): 555. 1872.

Distribution: Uttarakhand (cultivated); upto 1700 m.

Passiflora nepalensis Walp., Repert. Bot. Syst. 2: 221. 1843.

Distribution: Arunachal Pradesh, Sikkim; 1200–1800 m.

Passiflora quadrangularis L., Syst. Nat. ed. 10. 2: 1248. 1759.

Distribution: Uttarakhand (cultivated); upto 1700.

Passiflora suberosa L., Sp. Pl. 958. 1753.

Distribution: Uttarakhand.

Passiflora wilsonii Hemsl., Bull. Misc. Inform. Kew 1: 17. 1908.

Distribution: Arunachal Pradesh; 700–2000 m.

PEDALIACEAE

(1 genus; 1 taxon)

Sesamum L.

Sesamum indicum L., Sp. Pl. 634. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1500 m.

PHRYMACEAE

(1 genus; 1 taxon)

Phryma L.

Phryma leptostachya L., Sp. Pl. 601. 1753.

Distribution: Jammu & Kashmir, Uttarakhand; 600–1900 m.

PHYTOLACCACEAE

(2 genera; 2 taxa)

Phytolacca L.

Phytolacca acinosa Roxb., Fl. Ind. 2: 458. 1832.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2600 m.

Rivina L.

Rivina humilis L., Sp. Pl. 121. 1753.

Distribution: Uttarakhand.

PIPERACEAE

(2 genera; 33 taxa)

Peperomia Ruiz & Pav.

Peperomia heyneana Miq., Syst. Piperac. 1: 123. 1843.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2000 m.

Peperomia pellucida (L.) Kunth, Nov. Gen. Sp. 1: 64. 1816. *Piper pellucidum* L.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 100–1000 m.

Peperomia peploides Kunth, Nov. Gen. Sp. (quarto ed.) 1: 69. 1815.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand. 700–1500 m.

Peperomia tetraphylla (G.Forst.) Hook. & Arn., Bot. Beechey Voy. 97. 1832. *P. tetraphyllum* G.Forst.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1500–2200 m.

Piper L.

Piper arunachalensis Gajurel, Rethy & Y. Kumar, J. Linn. Soc. Bot. 137: 418. 2001.
Distribution: Arunachal Pradesh; 1200 m.

Piper attenuatum Buch.-Ham. ex Miq., Syst. Piperac. 306. 1843.
Distribution: Arunachal Pradesh, Sikkim; 200–460 m. (Plate 193b)

Piper betle L., Sp. Pl. 28. 1753.
Distribution: Arunachal Pradesh; 100–1500 m.

Piper betleoides C.DC., Candollea 1: 186. 1923.
Distribution: Arunachal Pradesh, Sikkim; 500–1200 m.

Piper boehmeriifolium (Miq.) Wall. ex C.DC., Prodr. 16(1): 348. 1869. *Chavica boehmeriifolia* Miq.
Distribution: Arunachal Pradesh; 300–1000 m.

Piper chuvya Hunter ex C.DC., Prodr. 16(1): 353. 1869.
Distribution: Sikkim; 200–500 m.

Piper clarkei C.DC., Candollea 1: 186. 1923.
Distribution: Arunachal Pradesh; 2700–3500 m.

Piper curtistipes C.DC., Candollea 1: 225. 1923.
Distribution: Arunachal Pradesh; 800–1200 m.

Piper dekkooanum C.DC., Candollea 1: 199. 1923.
Distribution: Arunachal Pradesh; 600–1600 m.

Piper diffusum Vahl, Enum. Pl. 1: 333. 1804.
Distribution: Arunachal Pradesh; 800–1200 m.

Piper gamblei C.DC., Candollea 1: 204. 1923.
Distribution: Arunachal Pradesh; 500–1000 m.

Piper glabramentum C.DC., Candollea 1: 219. 1923.
Distribution: Arunachal Pradesh; 600–1400 m.

Piper griffithii C.DC., J. Bot. 163. 1866.
Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

Piper hamiltonii C.DC., Prodr. 16(1): 360. 1869.
Distribution: Sikkim; 300–1000 m.

Piper hymenophyllum (Miq.) Wight, Icon. Pl. Ind. Orient. 6: t. 1942. 1853. *Artanthe hymenophylla* Miq.

Distribution: Arunachal Pradesh; 1000–1500 m.

Piper khasianum C.DC., Prodr. 16(1): 349. 1869.

Distribution: Sikkim; 300–600 m.

Piper longum L., Sp. Pl. 29. 1753.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 500–1200 m.

Piper macrostachyum (C.Presl) C. DC., Prodr. 16(1): 371. 1869. *Artanthe macrostachya* C.Presl

Distribution: Arunachal Pradesh; 600–1400 m.

Piper mannii C.DC., Candollea 1: 196. 1923.

Distribution: Arunachal Pradesh; 500–1500 m.

Piper mullesua D.Don, Prodr. Fl. Nep. 20. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1000–3000 m. (Plate 193c)

Piper nigrum L., Sp. Pl. 28. 1753.

Distribution: Arunachal Pradesh; 500–1200 m.

Piper pedicellatum C.DC., J. Bot. 4: 164. 1866.

Distribution: Arunachal Pradesh, Sikkim; 300–1800 m.

Piper peepuloides Wall., Numer. List. 6650. 1832.

Distribution: Sikkim; 250–1250 m.

Piper rhytidocarpum Hook.f., Fl. Brit. India 5(13): 92. 1886. *Piper nigrum* L. var. *macrostachyum* C.DC.

Distribution: Arunachal Pradesh; 400–2500 m.

Piper suipigua Buch.-Ham. ex D.Don, Prodr. Fl. Nepal. 20. 1825. *P. nepalense* Miq.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–1800 m.

Piper sumatranum (Miq.) C.DC., Prodr. 16(1): 343. 1869. *Cubeba sumatrana* Miq.

Distribution: Arunachal Pradesh; 200–800 m.

Piper sylvaticum Roxb., Fl. Ind. 1: 158–159. 1820.

Distribution: Arunachal Pradesh, Sikkim; 200–2000 m.

Piper thomsonii (C.DC.) Hook.f., Fl. Brit. India 5(13): 87. 1886. *Chavica thomsonii* C.DC.

Distribution: Arunachal Pradesh, Sikkim; 200–1200 m.

Piper trioicum Roxb., Fl. Ind. 1: 153. 1820. *P. attenuation* Buch.-Ham. ex Miq.

Distribution: Arunachal Pradesh, Sikkim; 200–1000 m.

PITTOSPORACEAE

(1 genus; 3 taxa)

Pittosporum Banks ex Gaertn.**Pittosporum eriocarpum** Royle, Ill. Bot. Himal. Mts. 77. 1839.

Distribution: Himachal Pradesh, Uttarakhand.

Pittosporum napaulense (DC.) Rehder & E.H. Wilson, Pl. Wilson. 3(2): 326. 1916.
Senacia napaulensis DC.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 160–1900 m.

Pittosporum podocarpum Gagnepain, Notul. Syst. (Paris) 8(4): 211. 1939.

Distribution: Arunachal Pradesh; 1000–1500 m.

PLANTAGINACEAE

(1 genus; 13 taxa)

Plantago L.**Plantago amplexicaulis** Cav., Icon. 2: 22. 1793.

Distribution: Jammu & Kashmir.

Plantago asiatica L., Sp. Pl. 163. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Plantago asiatica L. subsp. **erosa** (Wall.) Z. Yu Li, Fl. Reipubl. Popul. Sin. 70: 328. 2002. *P. erosa* Wall.

Distribution: Arunachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 600–1500 m.

Plantago brachyphylla Edgew. ex Decne., Prodr. 13(1): 696. 1852.

Distribution: Jammu & Kashmir; 3000–4000 m.

Plantago depressa Willd., Enum. Pl. Suppl.: 8. 1814.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–3900 m.

Plantago exigua Murray, Opuscula 94, t. 5. 1778.

Distribution: Jammu & Kashmir, Uttarakhand.

Plantago gentianoides Sm., Fl. Graec. Prodr. 1: 101. 1806.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Plantago himalaica Pilg., Pflanzenr. 4. 269. Heft 102: 62. 1937.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–3450 m.

Plantago indica L., Syst. Nat. ed. 10 2: 896. 1759.

Distribution: Jammu & Kashmir.

Plantago lanceolata L., Sp. Pl. 113. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2800–3700 m.

Plantago major L., Sp. Pl. 1: 112. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2200–3950 m.

(Plate 194a)

Plantago ovata Forssk., Fl. Aegypt. Arab. 31. 1775.

Distribution: Arunachal Pradesh, Himachal Pradesh.

Plantago pumila L.f., Suppl. Pl. 125. 1782.

Distribution: Jammu & Kashmir.

PLATANACEAE

(1 genus; 1 taxon)

Platanus L.

Platanus orientalis L., Sp. Pl. 999. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

PLUMBAGINACEAE

(3 genera; 6 taxa)

Acantholimon Boiss.

Acantholimon lycopodioides (Girard) Boiss., Prodr. 12: 632. 1848. *Statice lycopodioides* Girard

Distribution: Jammu & Kashmir.

Acantholimon munroanum Aitch. & Hemsl., J. Linn. Soc., Bot. 18: 76. 1881.

Distribution: Jammu & Kashmir.

Limonium Mill.

Limonium cabulicum (Boiss.) Kuntze, Revis. Gen. Pl. 2: 395. 1891. *Statice cabulica* Boiss.

Distribution: Jammu & Kashmir.

Limonium macrorhabdon Kuntze, Revis. Gen. Pl. 2: 395. 1891.

Distribution: Jammu & Kashmir.

Plumbago L.

Plumbago auriculata Lam., Encycl. 2: 270. 1786.

Distribution: Uttarakhand.

Plumbago zeylanica L., Sp. Pl. 151. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 610–853 m.

PODOSTEMACEAE

(2 genera; 2 taxa)

Hydrobryum Endl.

Hydrobryum griffithii (Wall. ex Griff.) Tul., Ann. Sci. Nat., Bot. III, 11: 104. 1849. *Podostemum griffithii* Wall. ex Griff.

Distribution: Sikkim, Uttarakhand.

Zeylanidium (Tul.) Engl.

Zeylanidium olivaceum (Gardner) Engl., Nat. Pflanzenfam. (ed. 2) 18a: 62. 1930.
Podostemum olivaceum Gardner
 Distribution: Arunachal Pradesh.

POLEMONIACEAE

(2 genera; 3 taxa)

Phlox L.

Phlox drummondii Hook., Bot. Mag. 62: t. 3441. 1835.
 Distribution: Uttarakhand.

Phlox paniculata L., Sp. Pl. 151. 1753.
 Distribution: Himachal Pradesh.

Polemonium L.

Polemonium caeruleum L., Sp. Pl. 162. 1753.
 Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

(Plate 194b)

POLYGALACEAE

(4 genera; 29 taxa)

Polygala L.

Polygala abyssinica R.Br. ex Fresen., Mus. Senckenberg. 2: 273. 1837.
 Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 351a)

Polygala arillata Buch.-Ham. ex D.Don, Prodr. Fl. Nepal. 199. 1824.
 Distribution: Arunachal Pradesh, Sikkim; 400–2500 m. (Plate 195)

Polygala arillata Buch.-Ham. ex D.Don var. **laevicarpa** R.N.Banerjee & G.S.Giri,
 42(2): 557, f. 1. 1987.
 Distribution: Arunachal Pradesh; 400–600 m.

Polygala arillata Buch.-Ham. ex D.Don var. **purpurescens** C.B.Clarke, Bot. Soc.
 Bengal, Bull. 12: 32. 1958.

Distribution: Arunachal Pradesh; 1500–1800 m.

Polygala arvensis Willd., Sp. Pl. 3(2): 876. 1802.
 Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Polygala chinensis L., Sp. Pl. 2: 704. 1753.
 Distribution: Sikkim.

Polygala crotalarioides Buch. Ham. ex DC., Prodr. 1: 327. 1824.
 Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Polygala elegans Wall. ex Royle, Ill. Bot. Himal. Mts. 76. 1839.
 Distribution: Uttarakhand.

Polygala erioptera DC., Prodr. 1: 326. 1824.
 Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 800–1600 m.

Polygala furcata Royle, Ill. Bot. Himal. Mts. 76, pl. 19, f. B .1834.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–1800 m.

Polygala globulifera Dunn, J. Linn. Soc. Bot. 35(247):486. 1903.

Distribution: Arunachal Pradesh; 1000–1200 m.

Polygala globulifera Dunn var. **longiracemosa** S.K.Chen, Acta Bot. Yunnan. 2(1): 83. 1980.

Distribution: Arunachal Pradesh; 1000–1300 m.

Polygala irregularis Boiss., Diagn. Pl. Orient. 1: 8. 1843.

Distribution: Jammu & Kashmir, Uttarakhand.

Polygala karensium Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 41: 392. 1872.

Distribution: Arunachal Pradesh, Sikkim.

Polygala linarifolia Willd., Sp. Pl. 3:877. 1807.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1300–1800 m.

Polygala longifolia Poir., Encycl. 5: 501. 1804.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 1300–1600 m.

Polygala mariesii Hemsley, J. Linn. Soc. Bot. 23:61, t. 2B. f. 7–13. 1886.

Distribution: Arunachal Pradesh; 1500–1600 m.

Polygala persicariifolia DC., Prodr. 1: 326. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–2600 m.

Polygala sibirica L., Sp. Pl. 702. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–1600 m.

Polygala tatarinowii Regel, Pl. Radd. 1: 278, pl. 7, f. 10–11. 1861.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1800–2650 m. **(Plate 196)**

Polygala tricholopha Chodat, Mém. Soc. Phys. Genève 31(2): 98, pl. 17, f. 20. 1893.

Distribution: Arunachal Pradesh, Sikkim; 1000–1500 m.

Polygala umbonata W.G.Craib, Bull. Misc. Inform. Kew 1916(10): 260–261. 1916.

Distribution: Arunachal Pradesh.

Polygala wightiana Wight & Arn., Prodr. Fl. Ind. Orient. 38. 1834.

Distribution: Sikkim

Salomonina Lour.

Salomonina cantoniensis Lour., Fl. Cochinch 1: 14. 1790.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1400–2500 m.

Salomonina ciliata (L.) DC., Prodr.1: 334. 1824. *Polygala ciliata* L.

Distribution: Sikkim, Uttarakhand.

Securidaca L.

Securidaca inappendiculata Hassk., Pl. Jav. Rar. 295. 1848.

Distribution: Arunachal Pradesh.

Xanthophyllum Roxb.

Xanthophyllum burkillii J.R.Drumm. & Dunn, Bull. Misc. Inform. Kew 1920: 245. 1920.

Distribution: Arunachal Pradesh; 800–1400 m.

Xanthophyllum flavescens Roxb., Pl. Coromandel 3: 82. 1820.

Distribution: Arunachal Pradesh; 800–1400 m.

Xanthophyllum griffithii Hook.f. ex A.W.Benn., Fl. Brit. India.1: 210. 1874.

Distribution: Arunachal Pradesh; 1500–1800 m.

POLYGONACEAE

(16 genera; 134 taxa)

Aconogonon (Meisn.) Rchb.

Aconogonon kuttiense Maiti, R.M. Dutta & Babu, J. Bombay Nat. Hist. Soc. 77: 303. 1980 (publ. 1981).

Distribution: Uttarakhand.

Aconogonon lichiangense (W.W.Sm.) Soják, Preslia 46: 151. 1974. *Polygonium lichiangense* W.W.Sm.

Distribution: Arunachal Pradesh.

Aconogonon pangianum G.D.Pal & Maiti, Bull. Bot. Surv. India 26: 95. 1984 (publ. 1985).

Distribution: Arunachal Pradesh.

Antenoron Raf.

Antenoron filiforme (Thunb.) Roberty & Vautier, Boissiera 10: 35. 1964. *Polygonum filiforme* Thunb.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 1000–1800 m.

Antigonon Endl.

Antigonon leptopus Hook. & Arn., Bot. Beechey Voy. 308. 1838.

Distribution: Jammu & Kashmir, Uttarakhand.

Bistorta (L.) Scop.

Bistorta affinis Greene, Leafl. Bot. Observ. Crit. 1(2): 21. 1904.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

(Plate 197b)

Bistorta perpusilla (Hook.f.) Greene, Leafl. Bot. Observ. Crit. 1: 21. 1905.
Polygonum perpusillum Hook.f.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4000–4700 m.

Bistorta tenuifolia (H.W.Kung) Miyam. & H.Ohba var. **gidarensis** I.D.Rai, G.Singh & G.S.Rawat, Phytotaxa 92(1): 13–19. 2013.

Distribution: Uttarakhand; 3852 m.

Emex Neck. ex Campd.

Emex australis Steinh., Ann. Sci. Nat., Bot. II, 9: 195. 1838.

Distribution: Jammu & Kashmir.

Fagopyrum Mill.

Fagopyrum acutatum (Lehm.) Mansf. ex K. Hammer, Verz. Landwirtschaft. Gartn. Kulturpfl. ed. 2, 1: 121. 1986. *Polygonum acutatum* Lehm.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh, Sikkim, Uttarakhand; 1500–2400 m. **(Plate 198a)**

Fagopyrum esculentum Moench, Methodus 290. 1794.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3700 m.

Fagopyrum kashmirianum Munshi, Econ. Taxon. Bot. 3: 627. 1982.

Distribution: Jammu & Kashmir.

Fagopyrum tataricum (L.) Gaertn., Fruct. Sem. Pl. 2: 182. 1790. *Polygonum tataricum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Fallopia Adans.

Fallopia convolvulus (L.) Á.Löve, Taxon 19: 200. 1970. *Polygonum convolvulus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–3950 m.

Fallopia dentatoalata (F.Schmidt) Holub, Folia Geobot. Phytotax. 6: 176. 1971. *Polygonum dentatoalatum* f. Schmidt

Distribution: Himachal Pradesh.

Fallopia dumetorum (L.) Holub, Folia Geobot. Phytotax. 6: 176. 1971. *Polygonum dumetorum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand. **(Plate 198b)**

Fallopia pterocarpa (Meisn.) Holub, Folia Geobot. Phytotax. 6: 156. 1971. *Polygonum pterocarpum* Meisn.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2500 m.

Homalocladium (F.J.Müll.) L.H.Bailey

Homalocladium platycladum (F.Muell.) L.H.Bailey, Gentes Herb. 2: 58. 1929.
Polygonum platycladum F.Muell.

Distribution: Jammu & Kashmir, Uttarakhand.

Knorringia (Czukav.) Tzvelev

Knorringia sibirica (Laxm.) S.P.Hong, Nordic J. Bot. 9: 354. 1989. *Polygonum sibiricum* Laxm.

Distribution: Jammu & Kashmir.

Koenigia L.

Koenigia binsarii (Silas & R.D.Gaur) R.D.Gaur, Fl. Distr. Garhwal 135. 1999.
Polygonum binsarii Silas & R.D.Gaur

Distribution: Uttarakhand.

Koenigia islandica L., Mant. Pl. 35. 1767.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–5000 m.

Koenigia nummularifolia Mesíček & Soják, Folia Geobot. Phytotax. 8: 110. 1973.

Distribution: Uttarakhand.

Oxyria Hill

Oxyria digyna (L.) Hill, Hort. Kew. 158. 1768. *Rumex digynus* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2400–5800 m. **(Plate 199)**

Persicaria Mill.

Persicaria alpina (All.) H.Gross, Bull. Acad. Int. Géogr. Bot. 23: 31. 1913.
Polygonum alpinum All.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Persicaria amphibia (L.) Delarbre, Fl. Auvergne ed. 2: 519. 1800. *Polygonum amphibium* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Persicaria amphibia (L.) Delarbre var. **natans** (Leyss.) Munshi & Javeid, Syst. Stud. Polyg. Kashm. Himal. 63. 1986. *Polygonum amphibium* L. var. *natans* Leyss.

Distribution: Jammu & Kashmir.

Persicaria amplexicaulis (D.Don) Ronse Decr., Bot. J. Linn. Soc. 98: 368. 1988.
Polygonum amplexicaule D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–3550 m.

Persicaria barbata (L.) H.Hara, Fl. E. Himal. 70. 1966. *Polygonum barbatum* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Persicaria barbata (L.) H.Hara var. **gracilis** (Danser) H.Hara, Enum. Fl. Pl. Nepal 175. 1982. *Polygonum barbatum* L. subsp. *gracile* Danser

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Persicaria campanulata (Hook.f.) Ronse Decr., Bot. J. Linn. Soc. 98: 367. 1988. *Polygonum campanulatum* Hook.f.

Distribution: Sikkim, Uttarakhand; 3000–3600 m.

Persicaria capitata (Buch.-Ham. ex D.Don) H. Gross, Bot. Jahrb. Syst. 49: 277. 1913. *Polygonum capitatum* Buch.-Ham. ex D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 600–2500 m. **(Plate 200a)**

Persicaria chinensis (L.) H.Gross, Bot. Jahrb. Syst. 49(2): 269. 1913. *Polygonum chinense* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 270–2900 m. **(Plate 200b)**

Persicaria decipiens (R.Br.) K.L.Wilson, Telopea 3: 178. 1988. *Polygonum decipiens* R.Br.

Distribution: Himachal Pradesh.

Persicaria glabra (Willd.) M.Gómez, Anales Inst. Segunda Enseñ. 2: 278. 1896. *Polygonum glabrum* Willd.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–3500 m.

Persicaria hydropiper (L.) Delarbre, Fl. Auvergne ed. 2: 518. 1800. *Polygonum hydropiper* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–3900 m.

Persicaria lanigera (R. Br.) Soják, Preslia 46: 153. 1974. *Polygonum lanigerum* R. Br.

Distribution: Jammu & Kashmir, Sikkim.

Persicaria lapathifolia (L.) Delarbre, Fl. Auvergne ed. 2: 519. 1800. *Polygonum lapathifolium* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand. **(Plate 200c)**

Persicaria limbata (Meisn.) H.Hara, Fl. E. Himal. 71. 1966. *Polygonum limbatum* Meisn.

Distribution: Uttarakhand.

Persicaria longiseta (Bruijn) Kitag., Rep. Inst. Sci. Res. Manchoukuo 1(8): 322. 1937. *Polygonum longisetum* Bruijn

Distribution: Uttarakhand.

Persicaria maculosa Gray, Nat. Arr. Brit. Pl. 2: 269. 1821.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Persicaria mitis (Schrank) Holub, Folia Geobot. Phytotax. 8: 177. 1973. *Polygonum mite* Schrank

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Persicaria nepalensis (Meisn.) Miyabe, J. Fac. Agric. Hokkaido Imp. Univ. 26: 514. 1934. *Polygonum nepalense* Meisn.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3400 m. (Plate 201a)

Persicaria orientalis (L.) Spach, Hist. Nat. Vég. 10: 537. 1841. *Polygonum orientale* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Persicaria polystachya Opiz, Lotos 2: 229. 1852.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–3325 m.

Persicaria pubescens (Blume) Hara var. **acuminata** (Franch. & Sav.) H.Hara, Fl. E. Himalaya 74. 1966. *Polygonum hydropiper* L. var. *acuminatum* Franch. & Sav.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3700 m.

Persicaria punctata (Elliott) Small, Fl. S.E. U.S. 379. 1903. *Polygonum punctatum* Elliott

Distribution: Jammu & Kashmir.

Persicaria sagittata (L.) H.Gross, Beih. Bot. Centralbl. 37(2): 113. 1919. *Polygonum sagittatum* L.

Distribution: Himachal Pradesh, Uttarakhand.

Persicaria sinuata (Royle ex Bab.) Rajbh. & R.Joshi, J. Jap. Bot. 70(6): 332. 1995. *Polygonum sinuatum* Royle ex Bab.

Distribution: Himachal Pradesh, Uttarakhand.

Persicaria snobarrii Munshi & Javied, Syst. St. Polygo. Kash. Himal. 73. 1986.

Distribution: Jammu & Kashmir.

Persicaria stagnina (Buch.-Ham. ex Meisn.) Qaiser, Fl. Pakistan 205: 44. 2001. *Polygonum stagninum* Buch.-Ham. ex Meisn.

Distribution: Arunachal Pradesh, Sikkim; 200–1800 m.

Persicaria strigosa (R.Br.) Nakai, Rigakkwai 24: 299. 1926. *Polygonum strigosum* R. Br.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Persicaria tenella (Blume) H.Hara, J. Jap. Bot. 44: 375. 1969. *Polygonum tenellum* Blume

Distribution: Arunachal Pradesh, Uttarakhand.

Persicaria thunbergii Siebold & Zucc. var. **hastata** (Sieb. & Zucc.) H.Gross, Fl. E. Him. 74. 1966.

Distribution: Sikkim; 100–2300 m.

Persicaria virginiana (L.) Gaertn., Fruct. Sem. Pl. 2(1): 180. 1790. *Polygonum virginianum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh.

Persicaria vivipara (L.) Ronse Decr., Bot. J. Linn. Soc. 98: 368. 1988. *Polygonum viviparum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2200–3850 m.

Persicaria wallichii Greuter & Burdet, Willdenowia 19: 41 1989. *Aconogonon polystachyum* (Wall. ex Meisn.) M. Král

Distribution: Arunachal Pradesh; 2000–4000 m. **(Plate 202)**

Pleuropteropyrum H.Gross

Pleuropteropyrum rumicifolium (Royle ex Bab.) Munshi & Javeid, Syst. Stud. Polyg. Kashm. Himal. 79. 1986. *Polygonum rumicifolium* Royle ex Bab.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand. 3500–4500 m.

Polygonum L.

Polygonum affine D.Don, Prodr. Fl. Nepal. 70. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–5350 m.

Polygonum arenastrum Boreau, Fl. Centre France ed. 3, 2: 559. 1857.

Distribution: Jammu & Kashmir.

Polygonum aviculare L., Sp. Pl. 362. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m.

Polygonum cashmiriense H.Gross, Bot. Jahrb. Syst. 49: 342. 1913.

Distribution: Jammu & Kashmir.

Polygonum cognatum Meisn., Monogr. Polyg. 91. 1826.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3500–5000 m.

Polygonum delicatulum Meisn., Prodr. 14(1): 127. 1857.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–4200 m.

Polygonum emodi Meisn., Pl. Asiat. Rar. 3: 51, pl. 287. 1832.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1300–4000 m. **(Plate 203a)**

Polygonum filicaule Wall. ex Meisn., Pl. Asiat. Rar. 3: 59. 1832.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2800–4900 m.

Polygonum forrestii Diels, Notes Roy. Bot. Gard. Edinburgh 5(25): 258–259. 1912.

Distribution: Sikkim; 3950–4850 m.

Polygonum frondosum Meisn., Prodr. 14: 137. 1856.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Polygonum fugax Small, Bull. New York Bot. Gard. 2: 167. 1901.

Distribution: Uttarakhand.

Polygonum glaciale (Meisn.) Hook.f., Fl. Brit. India 5(13): 41. 1886. *P. perforatum* Meisn. var. *glaciale* Meisn.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Polygonum hagei Royle ex Bab., Trans. Linn. Soc. London 18: 110. 1838.

Distribution: Jammu & Kashmir.

Polygonum hookeri Meisn., Ann. Sci. Nat., Bot., sér. 5, 5(4): 352. 1866.

Distribution: Sikkim; 4400–5100 m.

Polygonum humile Meisn., Pl. Asiat. Rar. 3: 59. 1832. *Persicaria humilis* (Meisn.) H. Hara

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Polygonum kawagocanum Makino, Bot. Mag. (Tokyo) 28: 115. 1914.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim; 300–2000 m.

Polygonum kumaonum Subba Rao & Kumari, J. Indian Bot. Soc. 55: 168. 1976.

Distribution: Uttarakhand.

Polygonum lapathifolium L. var. **lanatum** (Roxb.) Steward, Contr. Gray Herb. 5: 46. 1930. *P. lanatum* Roxb.

Distribution: Uttarakhand.

Polygonum macrophyllum D. Don, Prodr. Fl. Nepal. 70. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2000–5000 m.

Polygonum maritimum L., Sp. Pl. 361. 1753.

Distribution: Jammu & Kashmir.

Polygonum microcephalum D. Don, Prodr. Fl. Nepal. 72. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 300–2800 m.

Polygonum microcephalum D. Don var. **sphaerocephalum** (Wall. ex Meisn.) H. Hara, Bull. Univ. Mus. Univ. Tokyo 2: 23. 1971. *P. sphaerocephalum* Wall. ex Meisn.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Polygonum molle D. Don, Prodr. Fl. Nepal. 72. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Polygonum molle D. Don var. **frondosum** (Meisn.) A. J. Li, Fl. Xizangica 1: 622. 1983. *Polygonum frondosum* Meisn.

Distribution: Uttarakhand.

Polygonum molliiforme Boiss., Diagn. Pl. Orient., ser. 17: 84. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–4300 m.

Polygonum muricatum Meisn., Monogr. Polyg. 74. 1826.

Distribution: Arunachal Pradesh, Sikkim.

Polygonum nummularifolium Meisn., Prodr. 14(1): 127. 1857.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–5500 m.

Polygonum pacificum Petrov ex Kom., Trudy Imp. S. Peterburgsk. Bot. Sada 29: 55. 1923.

Distribution: Jammu & Kashmir.

Polygonum paleaceum Wall., Fl. Brit. India 5(13): 32. 1886.

Distribution: Arunachal Pradesh.

Polygonum palmatum Dunn, Bull. Misc. Inform. Kew 1912: 341. 1912.

Distribution: Arunachal Pradesh.

Polygonum paronychioides C.A.Mey., Bull. Soc. Imp. Naturalistes Moscou 11: 356. 1838.

Distribution: Himachal Pradesh, Jammu & Kashmir; 2500–3250 m.

Polygonum perfoliatum L., Syst. Nat. ed. 10. 2: 1005. 1759.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–4800 m.

Polygonum plebeium R.Br., Prodr. Fl. Nov. Holl. 420. 1810.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–4000 m.

Polygonum polycnemoides Jaub. & Spach, Ill. Pl. Orient. 2: 30, pl. 120. 1844.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Polygonum posumbu Buch.-Ham. ex D.Don, Prodr. Fl. Nepal. 71. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Polygonum praetermissum Hook.f., Fl. Brit. India 5(13): 47–48. 1886.

Distribution: Sikkim; 1600–2000 m.

Polygonum pubescens Blume, Bijdr. Fl. Ned. Ind. 2: 532. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–3700 m.

Polygonum recumbens Royle ex Bab., Trans. Linn. Soc. London 18: 116. 1838.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–4100 m.

Polygonum rottboellioides Jaub. & Spach, Ill. Pl. Orient. 2: 32, pl. 122. 1845.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Polygonum rottboellioides Jaub. & Spach var. **tibetica** (Hook.f.) R.R.Stewart, Annot. Cat. Vasc. Pl. West Pakistan Kashmir 210. 1972. *P. tubulosum* Boiss. var. *tibetica* Hook.f.

Distribution: Jammu & Kashmir.

Polygonum roylei Bab., Trans. Linn. Soc. London 18: 115. 1838.

Distribution: Jammu & Kashmir.

Polygonum rude Meisn., Prodr. 14: 137. 1856.

Distribution: Arunachal Pradesh, Sikkim; 1500–3000 m.

Polygonum runcinatum Buch.-Ham. ex D.Don, Prodr. Fl. Nepal. 73. 1825.

Distribution: Arunachal Pradesh, Sikkim; 1000–3800 m. (Plate 201b)

Polygonum sibiricum Laxm., Novi Comment. Acad. Sci. Imp. Petrop. 18: 531, pl. 7, f. 2. 1774.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–3500 m.

Polygonum sibiricum Laxm. var. **thomsonii** Meisn., Ann. Sci. Nat., Bot., sér. 6, 351. 1866.

Distribution: Jammu & Kashmir, Sikkim.

Polygonum simlense Royle ex Bab., Trans. Linn. Soc. London 18: 102. 1838.

Distribution: Himachal Pradesh, Uttarakhand.

Polygonum sparsipilosum A.J.Li, Fl. Reipubl. Popularis Sin. 25(1): 65. 1998.

Distribution: Arunachal Pradesh, Sikkim; upto 3650 m.

Polygonum thunbergii Siebold & Zucc., Abh. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. 4(3): 208. 1846.

Distribution: Arunachal Pradesh, Sikkim; 1000–2000 m.

Polygonum tortuosum D.Don, Prodr. Fl. Nepal. 71. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–4350 m.

(Plate 203b)

Polygonum vacciniifolium Wall. ex Meisn., Pl. Asiat. Rar. 3: 54. 1832.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–3900 m.

(Plate 204a)

Polygonum viscosum Buch.-Ham. ex D.Don, Prodr. Fl. Nepal. 71. 1825.

Distribution: Sikkim; 3950–4850 m.

Rheum L.

Rheum acuminatum Hook.f. & Thomson, Bot. Mag. 81: 4887. 1885.

Distribution: Sikkim; 3000–4100 m. (Plate 204b)

Rheum australe D.Don, Prodr. Fl. Nepal. 75. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 4000 m.

(Plate 204c)

Rheum globulosum Gage, Bull. Misc. Inform. Kew 1908(4): 181–182. 1908.

Distribution: Sikkim; 3600–5200 m.

- Rheum moorcroftianum** Royle, Ill. Bot. Himal. Mts. 1: 315–318. 1839.
Distribution: Himachal Pradesh, Uttarakhand. (Plate 205)
- Rheum nobile** Hook.f. & Thomson, Ill. Himal. Pl. 19. 1855.
Distribution: Arunachal Pradesh, Sikkim; 3000–4200 m.
- Rheum spiciforme** Royle, Ill. Bot. Himal. Mts. 1: 315–318, pl. 78. 1839.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–4600 m.
(Plate 206a)
- Rheum tibeticum** Maxim. ex Hook.f., Fl. Brit. India 5(13): 56. 1886.
Distribution: Jammu & Kashmir, Uttarakhand.
- Rheum webbianum** Royle, Ill. Bot. Himal. Mts. 1: 318, pl. 78a. 1839.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2500–4050 m.
- Rumex** L.
- Rumex acetosa** L., Sp. Pl. 337. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–4000 m.
(Plate 206b)
- Rumex acetosella** L., Sp. Pl. 538. 1753.
Distribution: Uttarakhand.
- Rumex angulatus** Rech.f., Candollea 12: 51–52. 1949.
Distribution: Himachal Pradesh, Jammu & Kashmir.
- Rumex chalepensis** Mill., Gard. Dict. (ed. 8) no. 11. 1768.
Distribution: Jammu & Kashmir.
- Rumex conglomeratus** Murray, Prod. Stirp. Gott. 52. 1770.
Distribution: Jammu & Kashmir.
- Rumex crispus** L., Sp. Pl. 335. 1753.
Distribution: Jammu & Kashmir, Uttarakhand.
- Rumex dentatus** L., Mant. Pl. 2: 226. 1771.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2200–3800 m.
- Rumex gangotrianus** Aswal & S.K.Srivast., Candollea 41: 389. 1987.
Distribution: Uttarakhand.
- Rumex hastatus** D.Don, Prodr. Fl. Nepal. 74. 1825.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2100–3600 m. (Plate 207a)
- Rumex longifolius** DC., Fl. Franç. ed. 3, 5: 368. 1815.
Distribution: Jammu & Kashmir.
- Rumex maritimus** L., Sp. Pl. 335. 1753.
Distribution: Arunachal Pradesh, Uttarakhand.

Rumex nepalensis Spreng., Syst. Veg. 2: 159. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–3650 m.

Rumex nigricans Hook.f., Fl. Brit. India 5: 59. 1886.

Distribution: Sikkim; 800–1500 m.

Rumex patientia L., Sp. Pl. 333. 1753.

Distribution: Jammu & Kashmir.

Rumex patientia L. subsp. **orientalis** (Bernh. ex Schult. & Schult.f.) Danser, Ned. Kruidk. Arch. 1923: 281. 1924. *R. orientalis* Bernh. ex Schult. & Schult.f.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–4900 m.

Rumex paulsenianus Rech.f., Repert. Spec. Nov. Regni Veg. 29: 246. 1931.

Distribution: Jammu & Kashmir.

Rumex punjabensis K.M.Vaid & H.B.Naithani, Indian For. 105: 802. 1979.

Distribution: Jammu & Kashmir.

Rumex trisetifer Stokes, Bot. Mat. Med. 2: 305. 1814.

Distribution: Sikkim; 1000–1850 m.

PORTULACACEAE

(3 genera; 8 taxa)

Calandrinia Kunth

Calandrinia ciliata (Ruiz & Pav.) DC, Prodrumus 3. 1828. *Talinum ciliatum* Ruiz & Pav.

Distribution: Uttarakhand.

Portulaca L.

Portulaca grandiflora Hook., Bot. Mag. n.s. 3. t. 2885. 1829.

Distribution: Jammu & Kashmir.

Portulaca halimoides L., Sp. Pl. ed. 2: 639. 1762.

Distribution: Uttarakhand.

Portulaca oleracea L., Sp. Pl. 445. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1000 m.

Portulaca oleracea L. var. **linearifolia** Sivaranjan & Manilal., New Bot. 4: 30. 1977.

Distribution: Uttarakhand.

Portulaca pilosa L. Sp. Pl. 445. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Portulaca quadrifida L., Mant. Pl. 73. 1767.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Talinum Adans.

Talinum paniculatum (Jacq.) Gaertn., Fruct. Sem. Pl. 2: 219. 1791. *Portulaca paniculata* Jacq.

Distribution: Uttarakhand.

PRIMULACEAE
(8 genera; 164 taxa)

Anagallis L.

Anagallis arvensis L., Sp. Pl. 148. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Anagallis minima (L.) E.H.L.Krause, Deutschl. Fl. ed. 2, 9: 251. 1901. *Centunculus minimus* L.

Distribution: Uttarakhand.

Anagallis pumila Sw., Prodr. Veg. Ind. Occ. 40. 1788.

Distribution: Himachal Pradesh, Uttarakhand.

Androsace L.

Androsace aizoon Duby, Prodr. 8: 50. 1844.

Distribution: Jammu & Kashmir.

Androsace akbaitalensis Derganc ex O.Fedtsch., Pl. Pamir 50. 1903.

Distribution: Jammu & Kashmir.

Androsace baltistanica Y.J.Nasir, Fl. Pakistan 157: 62. 1984.

Distribution: Jammu & Kashmir.

Androsace chamaejasme Wulfen., Collectanea 1: 194. 1787.

Distribution: Himachal Pradesh, Uttarakhand.

Androsace cordifolia Wall., Asiat. Res. 13: 37. 1820.

Distribution: Himachal Pradesh.

Androsace coronata (Watt) Hand.-Mazz., Oesterr. Bot. Z. 79: 37. 1930. *A. chamaejasme* Wulfen. var. *coronata* Watt

Distribution: Sikkim; 4000–4800 m.

Androsace croftii Watt., J. Linn. Soc., Bot. 20: 17. 1882.

Distribution: Sikkim; 3000–4000 m.

Androsace delavayi Franch., J. Bot. (Morot) 9: 456. 1895.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4000–5500 m.

Androsace duthieana R.Knuth, Pflanzenr. IV, 237: 193. 1905.

Distribution: Jammu & Kashmir.

Androsace flavescens Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg III, 32: 506. 1888.

Distribution: Jammu & Kashmir.

Androsace foliosa Duby, Prodr. 8: 49. 1844.

Distribution: Jammu & Kashmir.

Androsace gagnepainiana Hand.-Mazz., Repert. Spec. Nov. Regni Veg. 17: 200. 1921.

Distribution: Arunachal Pradesh.

Androsace geraniifolia Watt, J. Linn. Soc., Bot. 20: 17. 1882.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Androsace globifera Duby, DC. Prodr. 8: 48. 1844.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand. (Plate 209a)

Androsace hazarica R.R.Stewart ex Y.J.Nasir, Fl. Pakistan 157: 69. 1984.

Distribution: Jammu & Kashmir.

Androsace henryi Oliv., Hooker's Icon. Pl. 20: t. 1973. 1891.

Distribution: Arunachal Pradesh, Sikkim; 2500–4500 m.

Androsace hookeriana Klatt, Linnaea 32: 293. 1863.

Distribution: Sikkim; 3500–4500 m.

Androsace jacquemontii Duby, Prodr. 8: 50. 1844.

Distribution: Himachal Pradesh.

Androsace jacquemontii Duby var. **robusta** (R.Knuth) Govaerts, World Checklist Seed Pl. 1(1): 6. 1994. *A. villosa* L. var. *robusta* R.Knuth

Distribution: Jammu & Kashmir, Uttarakhand; 2800–5400 m.

Androsace lanuginosa Wall., Fl. Ind. 2: 15. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 207b)

Androsace mucronifolia Watt, J. Linn. Soc., Bot. 20: 17. 1884.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Androsace muscoidea Duby, Prodr. 8: 48. 1844.

Distribution: Jammu & Kashmir, Sikkim; 3300–5500 m.

Androsace nepalensis Derganc, Allg. Bot. Z. Syst. 10: 110. 1904.

Distribution: Sikkim; 3500–4800 m.

Androsace poissonii R.Knuth, Pflanzenr. IV, 237: 203. 1905.

Distribution: Uttarakhand.

Androsace rotundifolia Hardw., Asiat. Res. 4: 350. 1795.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

(Plate 209b)

Androsace russellii Y.J.Nasir, Fl. Pakistan 157: 67. 1984.

Distribution: Jammu & Kashmir.

Androsace sarmentosa Wall., Fl. Ind. 2: 14. 1824.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2800–4200 m.

Androsace sarmentosa Wall. subsp. **primuloides** (Duby) Govaerts, World Checklist Seed Pl. 1(1): 7. 1994.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Androsace selago Hook.f. & Thomson ex Klatt, Linnaea 32: 292. 1863.

Distribution: Sikkim; 4000–5100 m.

Androsace sempervivoides Jacq. ex Duby, Prodr. 8: 50. 1844.

Distribution: Himachal Pradesh, Jammu & Kashmir; 3950 m.

Androsace septentrionalis L., Sp. Pl. 142. 1753.

Distribution: Jammu & Kashmir.

Androsace strigilosa Franch., Bull. Soc. Bot. France 32: 10. 1885.

Distribution: Sikkim; 3500–4500 m.

Androsace tibetica (Maxim.) R.Knuth, Pflanzenr. IV, 237: 187. 1905. *A. sempervivoides* Jacq. ex Duby var. *tibetica* Maxim.

Distribution: Jammu & Kashmir.

Androsace umbellata (Lour.) Merr., Philipp. J. Sci. 15: 237. 1919. *Drosera umbellata* Lour.

Distribution: Jammu & Kashmi, Himachal Pradesh, Sikkim, Uttarakhand.

Androsace villosa L., Sp. Pl. 142. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

(Plate 208a)

Androsace zambalensis (Petitm.) Hand.-Mazz., Notes Roy. Bot. Gard. Edinburgh 15: 283. 1927. *A. villosa* L. var. *zambalensis* Petitm.

Distribution: Sikkim; 4000–5000 m.

Bryocarpum Hook.f. & Thomson

Bryocarpum himalaicum Hook.f. & Thomson, Hooker's J. Bot. Kew Gard. Misc. 9: 200. 1857.

Distribution: Sikkim; 2400–3700 m.

Cortusa L.

Cortusa brotheri Pax ex Lipsky, Trudy Imp. S.–Peterburgsk. Bot. Sada 18: 87. 1901.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Lysimachia L.

Lysimachia alternifolia Wall., Fl. Ind. 2: 26. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500 m.

Lysimachia assamica C.M.Hu, Kew Bull. 38: 333. 1983.

Distribution: Arunachal Pradesh; 2000 m.

Lysimachia candida Lindl., Hort. Soc. London 1: 301. 1846.

Distribution: Uttarakhand.

Lysimachia candida Lindl. subsp. **obovata** (Buch.-Ham. ex Hook.f.) Kunth, Herb. Western Ghats, Evergreen Forests, Flora of Tamil Nadu, 2. 1987.

Distribution: Uttarakhand.

Lysimachia chenopodioides Watt ex Hook.f., Fl. Brit. India 3(9): 503. 1882.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Lysimachia congestiflora Hemsl., J. Linn. Soc., Bot. 26(173): 50. 1889.

Distribution: Arunachal Pradesh.

Lysimachia debilis Wall., Fl. Ind., ed. 1820 2: 25–26. 1824.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2000 m.

Lysimachia decurrens G.Forst., Fl. Ins. Austr. 12.1786.

Distribution: Arunachal Pradesh.

Lysimachia deltoidea Wight, Ill. Ind. Bot. 2: 137, pl. 144 1850.

Distribution: Sikkim; 1000 m.

(Plate 208b)

Lysimachia evalvis Wall., Fl. Ind., ed. 1820 2: 27–28. 1824.

Distribution: Sikkim, Uttarakhand.

Lysimachia ferruginea Edgew., Trans. Linn. Soc. London 20: 83. 1846.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim.

Lysimachia japonica Thunb., Fl. Jap. 83. 1784.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling).

Lysimachia javanica Blume, Bijdr. 736. 1826.

Distribution: Sikkim; 1000–1800 m.

Lysimachia laxa Baudo, Ann. Sci. Nat., Bot., sér. 2, 20: 347. 1843.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Lysimachia lobelioides Wall., Fl. Ind., ed. 1820 2: 29. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Lysimachia maritima (L.) Galasso, Banfi & Soldano, Atti Soc. Ital. Sci. Nat. Mus. Civico Storia Nat. Milano 146: 229. 2005. *Glaux maritima* L.

Distribution: Jammu & Kashmir.

Lysimachia obovata Buch.-Ham. ex Wall., Numer. List 1488. 1829.

Distribution: Uttarakhand.

Lysimachia prolifera Klatt, Abh. Nat. Ver. Hanb. 4(4): 30. t. 16. 1866.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3200–3800 m.

Lysimachia pyramidalis Wall, Fl. Ind., ed. 1820 2: 28. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Lysimachia rubiginosa Hemsl., J. Linn. Soc., Bot. 26(173): 56–57. 1889.

Distribution: Arunachal Pradesh.

Lysimachia vulgaris L., Sp. Pl. 146.1753.

Distribution: Jammu & Kashmir.

Omphalogramma (Franch.) Franch.

Omphalogramma elwesianum (King ex Watt) Franch., Bull. Soc. Bot. France 45: 179. 1898. *Primula elwesiana* King ex Watt

Distribution: Arunachal Pradesh, Sikkim; 3500–4000 m.

Omphalogramma forrestii Balf.f., Notes Roy. Bot. Gard. Edinburgh 13(61): 23–24. 1920.

Distribution: Arunachal Pradesh.

Primula L.

Primula atrodentata W.W.Sm., Rec. Bot. Surv. India 4(5): 217. 1911.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 3500–4000 m.

Primula bellidifolia King ex Hook.f., Fl. Brit. India 3(9): 486. 1882.

Distribution: Sikkim; 3500–4500 m.

Primula blandula W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 15: 299. 1927.

Distribution: Arunachal Pradesh.

Primula bracteosa W.G.Craib, Notes Roy. Bot. Gard. Edinburgh 6(29–30): 250. 1917.

Distribution: Arunachal Pradesh, Sikkim; 2700–3400 m.

Primula calderiana Balf.f. & R.E.Cooper, Notes Roy. Bot. Gard. Edinburgh 9(41): 7. 1915.

Distribution: Arunachal Pradesh, Sikkim; 3500–4500 m.

Primula calliantha Franch. subsp. **mishmiensis** (Kingdon–Ward) C.M. Hu, Fl. Reipubl. Popularis Sin. 59(2): 164. 1990. *P. mishmiensis* Kingdon–Ward

Distribution: Arunachal Pradesh.

Primula calthifolia W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 15(75): 300. 1927.

Distribution: Arunachal Pradesh.

Primula capitata Hook., Bot. Mag. 76: pl. 4550. 1850.

Distribution: Sikkim; 3500–4500 m.

(Plate 210)

Primula capitata Hook. subsp. **lacteocapitata** (Balf.f. & W.W.Sm.) W.W.Sm. & Forrest, Notes Roy. Bot. Gard. Edinburgh 16(76): 18. 1928. *P. lacteocapitata* Balf.f. & W.W.Sm.

Distribution: Sikkim; 3000–3500 m.

- Primula caveana** W.W.Sm., Rec. Bot. Surv. India 4(5): 218. 1911.
Distribution: Sikkim; up to 4500 m.
- Primula chungensis** Balf.f. & Kingdon-Ward, Notes Roy. Bot. Gard. Edinburgh 13: 7. 1920. Distribution: Arunachal Pradesh.
- Primula clarkei** Watt., J. Linn. Soc., Bot. 29: 4, pl. 3B. 1882.
Distribution: Jammu & Kashmir.
- Primula clutterbuckii** Kingdon-Ward, Ann. Bot. 44: 122. 1930.
Distribution: Arunachal Pradesh.
- Primula concinna** Watt, J. Linn. Soc., Bot. 20(123–124): 5–6, pl. 4A. 1882.
Distribution: Sikkim; 4000–4800 m.
- Primula denticulata** Sm., Exot. Bot. 2: 109. 1806.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–4900 m. **(Plate 211)**
- Primula deuteronana** Craib, Notes Roy. Bot. Gard. Edinburgh 6: 251. 1917.
Distribution: Sikkim; 1200–3500 m. **(Plate 212a)**
- Primula dickieana** Watt., J. Linn. Soc., Bot. 20(123–124): 9, pl. 8A. 1882.
Distribution: Arunachal Pradesh, Sikkim; 3500–4200 m.
- Primula drummondiana** Craib, J. Roy. Hort. Soc. 39: 190. 1913.
Distribution: Uttarakhand.
- Primula duthieana** Balf.f. & W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9(43): 164–165. 1916.
Distribution: Jammu & Kashmir.
- Primula edgeworthii** Pax., Pflanzenr. IV, 237: 41. 1905.
Distribution: Uttarakhand.
- Primula elongata** Watt, J. Linn. Soc., Bot. 20(123–124): 8–9, pl. 6. 1882.
Distribution: Arunachal Pradesh, Sikkim.
- Primula elliptica** Royle., Ill. Bot. Himal. Mts. 311, pl. 76, f. 2. 1836.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.
- Primula erosa** Wall, Numer. List 611. 1829.
Distribution: Himachal Pradesh, Sikkim, Uttarakhand.
- Primula erythra** H.R.Fletcher, Trans. & Proc. Bot. Soc. Edinburgh 33: 440. 1943.
Distribution: Arunachal Pradesh.
- Primula euosma** W.G.Craib, Notes Roy. Bot. Gard. Edinburgh 11(54): 172. 1919.
Distribution: Arunachal Pradesh; 3500–4000 m.
- Primula farinosa** L., Sp. Pl. 143. 1753.
Distribution: Jammu & Kashmir.
- Primula filipes** Watt, J. Linn. Soc., Bot. 20: 5. 1882.
Distribution: Arunachal Pradesh, Sikkim.

Primula firmipes Balf.f. & Forrest, Notes Roy. Bot. Gard. Edinburgh 13(61): 10. 1920.

Distribution: Arunachal Pradesh.

Primula flagellaris W.W.Sm., Rec. Bot. Surv. India 4: 219. 1911.

Distribution: Sikkim; 3000–3700 m.

Primula floribunda Wall., Tent. Fl. Nepal. 43. t. 33. 1826.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 212b)

Primula gageana Balf.f. & W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9: 18. 1915.

Distribution: Sikkim; 3000–3500 m.

Primula gambeliana Watt, J. Linn. Soc., Bot. 20(123–124): 3, pl. 1. 1882.

Distribution: Arunachal Pradesh, Sikkim.

Primula garhwalica (Balodi & S.Singh) K.K.Khanna & An.Kumar, J. Econ. Taxon. Bot. 22: 237. 1998. *Androsace garhwalica* Balodi & S.Singh

Distribution: Uttarakhand; 4200 m.

Primula geraniifolia Hook.f., Fl. Brit. India 3(9): 484–485. 1882.

Distribution: Sikkim; 2500–3500 m.

Primula glabra Klott, Linnaea 37: 500. 1872.

Distribution: Arunachal Pradesh, Sikkim; 3500–4500 m.

Primula glandulifera Balf.f. & W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9: 20. 1915.

Distribution: Uttarakhand.

Primula glomerata Pax, Pflanzenz. 22(IV. 237): 92. 1905.

Distribution: Arunachal Pradesh, Sikkim; 4000–5000 m. (Plate 213)

Primula gracilipes Craib, Notes Roy. Bot. Gard. Edinburgh 6(29–30): 252. 1917.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 3000–4000 m.

Primula griffithii (Watt) Pax, Bot. Jahrb. Syst. 10(3): 213. 1889. *P. obtusifolia* Royle var. *griffithii* Watt

Distribution: Arunachal Pradesh, Sikkim; 3000–3700 m.

Primula hazarica Duthie, Ann. Roy. Bot. Gard. (Calcutta) 9: 49, pl. 62. 1901.

Distribution: Jammu & Kashmir.

Primula hookeri Watt, J. Linn. Soc., Bot. 20(123–124): 14–15, pl. 8B. 1882.

Distribution: Sikkim, Uttarakhand; 3700–5000 m.

Primula hopeana Balf.f. & R.E.Cooper, Trans. Bot. Soc. Edinburgh 27: 236. 1918.

Distribution: Sikkim.

Primula ianthina Balf.f. & Cave, Notes Roy. Bot. Gard. Edinburgh 9: 175. 1916.

Distribution: Sikkim; 3000–3500 m.

Primula involucrata Wall. ex Duby, Prodr. 8: 42. 1844.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4500 m. (Plate 214a)

Primula irregularis Craib, Notes Roy. Bot. Gard. Edinburgh 6: 253. 1917.

Distribution: Arunachal Pradesh, Sikkim; 3300–4200 m.

Primula kingii Watt., J. Linn. Soc., Bot. 20(123–124): i, pl. 7. 1882..

Distribution: Arunachal Pradesh, Sikkim; 3500–4300 m.

Primula klattii N.P.Balacr., J. Bombay Nat. Hist. Soc. 67: 63. 1970.

Distribution: Sikkim; 3000–4500 m.

Primula laxiuscula W.W.Sm., Trans. Bot. Soc. Edinburgh 35(2): 184–186. 1950.

Distribution: Arunachal Pradesh.

Primula listeri King ex Hook.f., Fl. Brit. India 3: 485. 1882.

Distribution: Arunachal Pradesh, Sikkim; 2500–3200 m.

Primula macrophylla D.Don, Prodr. Fl. Nepal. 80. 1825.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3600–5000 m. (Plate 214b)

Primula malacoides Franch., Bull. Soc. Bot. France 33(1): 64. 1886.

Distribution: Arunachal Pradesh, Uttarakhand. (Plate 215a)

Primula matthioli (L.) K.Richt., Természetráji Füzet. 17: 34. 1894. *Cortusa matthioli* L.

Distribution: Jammu & Kashmir.

Primula megalocarpa H. Hara, J. Jap. Bot. 49(5): 133–134. 1974.

Distribution: Uttarakhand.

Primula melanodonta W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 15(75): 303. 1927.

Distribution: Arunachal Pradesh.

Primula melichlora Balf.f. & W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9: 29. 1915.

Distribution: Sikkim; 4000–4500 m.

Primula minutissima Jacquem. ex Duby, DC. Prodr. 8 : 42. 1844. *P. heydei* Watt

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4150 m.

Primula mollis Nutt ex Hook., Bot. Mag. t. 4798. 1854.

Distribution: Arunachal Pradesh, Sikkim.

Primula muscoides Hook.f. ex Watt, J. Linn. Soc., Bot. 20(123–124): 15, pl. 4D. 1882.

Distribution: Sikkim; 4000–4800 m.

Primula nivalis Pall., Reise Russ. Reich. 3: 723. 1776.

Distribution: Himachal Pradesh.

Primula nutans Georgi, Bemerk. Reise Russ. Reich. 1: 200. 1775.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4000 m.

Primula obliqua W.W.Sm., Trans. Bot. Soc. Edinburgh 26(2): 119–120. 1913.

Distribution: Arunachal Pradesh, Sikkim; 3500–4500 m. (Plate 215b)

Primula obtusifolia Royle, 111. Bot. Himal. 311, t. 77, f.1. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–4200 m.

Primula pamirica Fed., Fl. U.S.S.R. 18: 724, pl. 7, f. 4. 1952.

Distribution: Jammu & Kashmir.

Primula paritoshensis Raizada, Suppl. Duthie's Fl. Upper Gangetic Plain 6: 142. 1976.

Distribution: Uttarakhand.

Primula petiolaris Wall., Roxb. Fl. Ind. ed. Carey, 2 : 22. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2300–4000 m.

Primula polonensis Kingdon-Ward, Ann. Bot. (Oxford) 44: 124. 1930.

Distribution: Arunachal Pradesh.

Primula prattii Hemsl., J. Linn. Soc., Bot. 29(202): 314. 1892.

Distribution: Uttarakhand.

Primula prenantha Balf.f. & W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9(43): 191–192. 1916.

Distribution: Arunachal Pradesh; 3400–3800 m.

Primula primulina (Spreng.) H.Hara, J. Jap. Bot. 37(4): 99. 1962. *Androsace primulina* Spreng.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3400–5000 m. (Plate 216a)

Primula pulchra Watt., J. Linn. Soc., Bot. 20: 3, pl. 2A. 1882.

Distribution: Jammu & Kashmir.

Primula pusilla Goldie, Edinburgh Philos. J. 6: 322. 1822.

Distribution: Uttarakhand; 4000–5600 m.

Primula reidii Duthie, Rep. Sahranpur Bot. Gdn. 1885: 30. 1885.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 216b)

Primula reptans Hook.f. ex Watt, J. Linn. Soc., Bot. 20: 14, pl. 13B. 1882.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4150 m.

Primula reticulata Wall., Fl. Ind., ed. 1820 2: 21. 1824.

Distribution: Sikkim; 3000–4000 m.

Primula rosea Royle, Ill. Bot. Himal. Mts. 311, pl. 75, f. 1. 1836.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Primula rotundifolia Wall., Fl. Ind., ed. 1820 2: 18–19. 1824.

Distribution: Sikkim, Uttarakhand; 3000–4000 m.

Primula rubra Honck., Verz. Gew. Teutschl. 575. 1782.

Distribution: Arunachal Pradesh.

Primula sapphirina Hook.f. & Thomson, Fl. Brit. India 3(9): 492. 1882.

Distribution: Sikkim; 3500–4800 m.

Primula sarmentosa (Wall.) Bennet & Raizada, Indian Forester 107(7): 435. 1981.

Androsace sarmentosa Wall.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4000 m.

Primula scapigera (Hook.f.) Craib, Notes Roy. Bot. Gard. Edinburgh 6: 254. 1917.

P. petiolaris Wall. var. *scapigera* Hook.f.

Distribution: Arunachal Pradesh, Sikkim; 2000–3500 m.

Primula schlagintweitiana Pax, Pflanzenr. 22(IV. 237): 91, f. 26. 1905.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Primula sessilis Royle ex Craib, Notes Roy. Bot. Gard. Edinburgh 6: 256. 1917.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1200–1500 m.

(Plate 217a)

Primula sikkimensis Hook., Bot. Mag. 77:, pl. 4597. 1851.

Distribution: Sikkim; 3000–3700 m.

(Plate 217b)

Primula silaensis Petitm., Bull. Herb. Boissier, sér. 2, 7(6): 524, f. 3–III. 1907.

Distribution: Arunachal Pradesh.

Primula soldanelloides Watt, J. Linn. Soc., Bot. 20: 10. 1882.

Distribution: Arunachal Pradesh, Sikkim; 3500–4500 m.

Primula stirtoniana Watt, J. Linn. Soc., Bot. 20: 15. 1882.

Distribution: Sikkim; 4000–4800 m.

Primula strumosa Balf.f. & R.E. Cooper, Notes Roy. Bot. Gard. Edinburgh 9(43): 201–202. 1916.

Distribution: Arunachal Pradesh, Sikkim; 4000–5000 m.

Primula stuartii Wall., Fl. Ind. 2: 20. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand. (Plate 217c)

Primula subansirica G.D.Pal, J. Bombay Nat. Hist. Soc. 82(3): 617. 1985.

Distribution: Arunachal Pradesh; 1500–2000 m.

Primula tanneri King, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 55: 227. 1886.

Distribution: Arunachal Pradesh, Sikkim. 4000–5000 m.

Primula tenella King ex Hook.f., Fl. Brit. India 3(9): 492. 1882.

Distribution: Sikkim; 3000–3500 m.

Primula tenuiloba (Watt) Pax, Bot. Jahrb. Syst. 10(3): 204. 1889. *P. muscoides* Hook.f. ex Watt var. *tenuiloba* Watt

Distribution: Sikkim; 4000–4500 m.

Primula tibetica Watt., J. Linn. Soc., Bot. 20(123–124): 6–7, pl. 11A. 1882.
Distribution: Sikkim, Uttarakhand; 4000–4500 m.

Primula vaginata Watt., J. Linn. Soc., Bot. 20(123–124): 4, pl. 2B. 1882.
Distribution: Sikkim; 3000 m.

Primula vaginata Watt subsp. **normaniana** (Kingdon-Ward) F.H.Chen & C.M.Hu,
Fl. Reipubl. Popularis Sin. 59(2): 36. 1990. *P. normaniana* Kingdon-Ward.
Distribution: Arunachal Pradesh.

Primula walshii W.G.Craib, J. Roy. Hort. Soc. 39: 190. 1913.
Distribution: Sikkim; 4000–4500 m.

Primula wattii King ex Watt, J. Linn. Soc., Bot. 20: 10. 1882.
Distribution: Sikkim; 4000–4600 m.

Primula whitei W.W.Sm., Rec. Bot. Surv. India 4(5): 268–269. 1911.
Distribution: Arunachal Pradesh, Sikkim; 3000–4000 m.

Primula wigramiana W.W.Sm., Notes Bot. Gdn. Edinb. 18: 182. 1934.
Distribution: Uttarakhand.

Samolus L.

Samolus vallerandi L., Sp. Pl. 443. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand

PROTEACEAE (2 genera; 4 taxa)

Grevillea R.Br. ex Knight

Grevillea robusta A.Cunn ex R.Br., Prod. Fl. Nov. Hall. 24. 1830.
Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Helicia Lour.

Helicia excelsa (Roxb.) Blume, Ann. Sci. Nat. ser. 2, 1: 219. 1834. *Roupala excelsa*
Roxb.
Distribution: Arunachal Pradesh; 500–1000 m.

Helicia nilagirica Bedd., Madr. J. Lit. Sci. ser. 3, 23(1): 56. 1864.
Distribution: Arunachal Pradesh, Sikkim; 600–2000 m. **(Plate 218)**

Helicia robusta R.Br. ex Blume, Ann. Sci. nat. ser. 2, 1: 220. 1834.
Distribution: Arunachal Pradesh; 400 m.

PUNICACEAE (1 genus; 1 taxon)

Punica L.

Punica granatum L., Sp. Pl. 472. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 300–
1400 m.

PYROLACEAE

(3 genera; 4 taxa)

Moneses Salisb. ex Gray**Moneses uniflora** A.Gray, Manual 273. 1848.

Distribution: Jammu & Kashmir.

Orthilia Raf.**Orthilia secunda** (L.) House, Amer. Midl. Naturalist 7: 134. 1921. *Pyrola secunda* L.

Distribution: Jammu & Kashmir.

Pyrola L.**Pyrola rotundifolia** L., Sp. Pl. 396. 1753.

Distribution: Western and Eastern Himalaya

Pyrola sikkimensis Kōisa, Bot. Jahrb. Syst. 89: 68. 1969.

Distribution: Sikkim; 1800–3500 m.

RAFFLESIIACEAE

(1 genus; 1 taxon)

Sapria Griff.**Sapria himalayana** Griff., Proc. Linn. Soc. Lond. 1: 216–217. 1844.

Distribution: Arunachal Pradesh.

RANUNCULACEAE

(30 genera; 225 taxa)

Aconitum L.**Aconitum assamicum** Lauener, Notes Roy. Bot. Gard. Edinburgh 25: 28. 1963.

Distribution: Arunachal Pradesh; 3900–4300 m.

Aconitum chasmanthum Stapf. ex Holmes, Mus. Repotr. Pharm. Soc. G. Brit. 2. 1903.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Aconitum dissectum D.Don, Prodr. Fl. Nep. 197. 1825.

Distribution: Sikkim.

Aconitum elwesii Stapf., Ann. Roy. Bot. Gard. Calcutta 10: 174. 1905.

Distribution: Sikkim; 2440–3000 m.

Aconitum ferox Wall. ex Ser., Mous. Helvét. 1: 106.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 3000–5000 m.

Aconitum fletcherianum G.Taylor, J. Roy. Hort. Soc. 77: 242. 1952.

Distribution: Arunachal Pradesh; 3000–4500 m.

Aconitum gymnandrum Maxim, Bull. Acad. Imp. Sci. Saint-Pétersbourg III, 23: 308. 1877.

Distribution: Sikkim.

Aconitum heterophylloides Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 171. 1905.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Aconitum heterophyllum Wall. ex Royle, Ill. Bot. Himal. Mount. 56. t. 13. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2800–4500 m.

Aconitum heterophyllum Wall. ex Royle var. **bracteatum** Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 154. 1905.

Distribution: Jammu & Kashmir.

Aconitum hookeri Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 147. 1905.

Distribution: Arunachal Pradesh, Sikkim; 4200–4800 m. (Plate 219c)

Aconitum laeve Royle, Ill. Bot. Himal. Mts. 56. 1834.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–4000 m.

Aconitum laeve Royle var. **curvipilosum** Tamura & Lauener, Notes Roy. Bot. Gard. Edinb. 37: 433. 1979.

Distribution: Jammu & Kashmir.

Aconitum lethale Griff., Not. Pl. Asiat. 4: 732. 1854.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2000–3000 m. (Plate 220a)

Aconitum moschatum (Brühl) Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 139. 1905. *A. ferox* Wall. subsp. *moschatum* Brühl

Distribution: Jammu & Kashmir.

Aconitum nagarum Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 176. 1905.

Distribution: Arunachal Pradesh; 2000–4500 m.

Aconitum naviculare Stapf., Ann. Roy. Bot. Gard. Calcutta 10: 154. 1905.

Distribution: Himachal Pradesh, Sikkim; about 4800 m.

Aconitum nakaoui Tamura, Acta Phytotax. & Geobot. 19: 73. 1972.

Distribution: Sikkim.

Aconitum novoluridum Munz, Gentes Herb. 6: 472. 1945.

Distribution: Arunachal Pradesh, Sikkim; 2000–3500 m.

Aconitum palmatum D. Don, Prodr. Fl. Nepal. 196. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–4000 m.

Aconitum rotundifolium Kar. & Kir., Bull. Soc. Imp. Naturalistes Moscou 15: 138. 1842.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Aconitum scaposum Franch., J. Bot. (Morot) 8: 277. 1894.

Distribution: Sikkim.

Aconitum soongaricum Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 141. 1905.

Distribution: Jammu & Kashmir.

Aconitum violaceum Jacq. ex Stapf., Ann. Roy. Bot. Gard. (Calcutta) 10: 144. 1905.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand. **(Plate 219b)**

Actaea L.

Actaea cimicifuga L., Sp. Pl. 504. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1700–4000 m.

Actaea spicata L. Sp. Pl. 504. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim. **(Plate 220b)**

Actaea spicata L. var. **acuminata** (Wall. ex Royle) H.Hara, J. Jap. Bot. 51: 132. 1976. *A. acuminata* Wall. ex Royle.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Actaea vaginata (Maxim.) J.Compton, Taxon 47: 613. 1998. *Isopyrum vaginatum* Maxim.

Distribution: Sikkim.

Adonis L.

Adonis aestivalis L. Sp. Pl. ed. 2. 771. 1763.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Adonis aestivalis L. subsp. **parviflora** (Fisch. ex DC.) Busch., Fl. Cauc. Crit. 3(3): 201. 1903.

Distribution: Himachal Pradesh, Uttarakhand.

Adonis chrysocyathus Hook.f. & Thomson, Fl. Brit. India 1: 15. 1875.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Adonis davidii Franch., Novosti Sist. Vyssh. Rast. 7: 146. 1970 (1971).

Distribution: Arunachal Pradesh; 3000 m.

Adonis nepalensis Simonov., Nov. Syst. Pl. Vasc. URSS. 7: 146. 1970 (1971).

Distribution: Sikkim.

Anemone L.

Anemone biflora DC., Syst. Nat. 1:201.1817.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Anemone demissa Hook.f. & Thomson, Fl. Ind. 1: 23. 1855.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2700–5600 m.

- Anemone elongata** D.Don, Prodr. Fl. Nep. 194. 1825.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–1800 m.
- Anemone falconeri** Thomson, Hooker's Icon Pl. 9.t. 899. 1852.
Distribution: Himachal Pradesh, Jammu & Kashmir.
- Anemone geum** H.Lév, Bull. Acad. Int. Geogr. Bot. 24: 25. 1915.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.
- Anemone griffithii** Hook.f. & Thomson, Fl. Ind. 1: 24. 1855.
Distribution: Arunachal Pradesh, Sikkim; 1800–3000 m.
- Anemone howellii** Jeffrey & W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 9: 78. 1916.
Distribution: Arunachal Pradesh; 1500–2500 m.
- Anemone narcissiflora** L., Sp. Pl. 542. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir.
- Anemone obtusiloba** D.Don, Prodr. Fl. Nepal. 149. 1825.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2300–5300 m.
- Anemone obtusiloba** D.Don var. **potentilloides** Cambess. ex Lauener, Notes Roy. Bot. Gard. Edinburgh 23: 187. 1960.
Distribution: Jammu & Kashmir
- Anemone polyanthes** D.Don, Prodr. Fl. Nepal. 194. 1825.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2400–4400 m.
- Anemone polycarpa** W.E.Evans, Notes Roy. Bot. Gard. Edinb. 13: 154. 1951.
Distribution: Sikkim.
- Anemone pulsatilla** L., Sp. Pl. 539. 1753.
Distribution: Himachal Pradesh.
- Anemone raui** Goel & U.C.Bhattach., J. Bombay Nat. Hist. Soc. 79: 641. 1982 (1983).
Distribution: Uttarakhand.
- Anemone rivularis** Buch.-Ham. ex DC., Syst. Nat. 1: 211. 1817.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1300–1600 m.
- Anemone rupestris** Wall. ex Hook.f. & Thomson, Fl. Ind. 1: 21. 1855.
Distribution: Arunachal Pradesh, Sikkim; 1800–3000 m.
- Anemone rupicola** Cambess., Voy. Inde 4: 5. 1844.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.
- Anemone smithiana** Lauener & Panigrahi, Notes Roy. Bot. Gard. Edinburgh 33: 491. 1975.
Distribution: Sikkim.

Anemone tetrsepala Royle, Ill. Bot. Himal. Mts. 53. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Anemone trullifolia Hook.f. & Thomson, Fl. Ind. 1: 22. 1855.

Distribution: Sikkim, Uttarakhand; 2500–5000 m.

Anemone vitifolia Buch.-Ham. ex DC., Syst. Nat. 1: 210. 1817.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–1600 m. **(Plate 221b)**

Aquilegia L.

Aquilegia fragrans Benth., Botanist 4: t. 181. 1840.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. **(Plate 221a)**

Aquilegia karelinii Baker, Gard. Chron. 2: 76. 1878.

Distribution: Uttarakhand.

Aquilegia moorcroftiana Wall. ex Royle, Ill. Bot. Himal. Mount. 55. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. **(Plate 222a)**

Aquilegia nivalis Falc., Gard. Chron. 2: 76. 1878.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Aquilegia pubiflora Wall. ex Royle, Ill. Bot. Himal. Mts. 55. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. **(Plate 219a)**

Asteropyrum J.R.Drumm. & Hutch.

Asteropyrum peltatum (Franch.) J.R.Drumm. & Hutch., Bull. Misc. Inform. Kew 1920: 155. 1920.

Distribution: Arunachal Pradesh; 2300 m.

Batrachium (DC.) Gray

Batrachium bungei (Steud.) L.Liu var. **flavidum** (Hand.-Mazz.) Liou, Fl. Reipubl. Popul. Sin. 28: 341. 1980.

Distribution: Jammu & Kashmir.

Batrachium trichophyllum (Chaix ex Vill.) Bosch, Prod. Fl. Batavae 7, 17: 1850.

Ranunculus trichophyllus Chaix

Distribution: Uttarakhand.

Beesia Balf.f. & W.W.Sm.

Beesia calthifolia Ulbr., Notizbl. Bot. Gart. Berlin-Dahlem 10: 872. 1929.

Distribution: Arunachal Pradesh; 1821 m.

Calathodes Hook.f. & Thomson

Calathodes palmata Hook.f. & Thomson, Fl. Ind.1: 41. 1855.

Distribution: Sikkim.

Calathodes polycarpa Ohwi, Acta Phytotax. Geobot. 2: 153. 1933.

Distribution: Sikkim; 3000–3400 m.

Callianthemum C.A.Mey.**Callianthemum alatavicum** Freyn, Bull. Herb. Boiss. 6: 882. 1898.

Distribution: Jammu & Kashmir.

Callianthemum anemonoides (Zahlbr.) Endl., Cat. Horti Vindob. 2: 211. 1842.*Ranunculus anemonoides* Zahlbr.

Distribution: Jammu & Kashmir.

Callianthemum pimpinelloides (D.Don ex Royle) Hook.f. & Thomson, Fl. Ind. 1: 26. 1855. *Ranunculus pimpinelloides* D.Don ex Royle

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2700–5500 m.

Caltha L.**Caltha palustris** L., Sp. Pl. 558. 1753.Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1800–3000 m. **(Plate 222b)****Caltha palustris** L. var. **alba** (Cambess.) Hook.f. & Thomson, Fl. Brit. India 1: 21. 1872. *C. alba* Cambess.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Caltha scaposa Hook.f. & Thomson, Fl. Ind. 1: 40. 1855.Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2500–4500 m. **(Plate 222c)****Caltha sinogracilis** W.T.Wang, Acta Phytotax. Sin., Addit. 1: 50. 1965.

Distribution: Arunachal Pradesh.

Ceratocephalus Pers.**Ceratocephalus falcata** Pers., Syn. Pl. 1: 341. 1805.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Ceratocephalus testiculatus (Crantz) Roth, Enum. Pl. Phaen. Germ. 1(1): 1014. 1827. *Ranunculus testiculatus* Crantz

Distribution: Jammu & Kashmir.

Clematis L.**Clematis acuminata** DC., Syst. Nat. 1: 148. 1817.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 800–2500 m.

Clematis acutangula Hook.f. & Thomson, Fl. Ind. 1: 5. 1855.

Distribution: Arunachal Pradesh; 500–1500 m.

Clematis alpina (L.) Mill. subsp. **sibirica** (L.) Kuntze, Verh. Bot. Vereins Prov. Brandenburg 26: 126. 1885. *Atragene sibirica* L.

Distribution: Jammu & Kashmir.

Clematis andersonii (C.B.Clarke ex Kuntze) H.Eichler, Biblioth. Bot. 31: 47. 1958.*C. smilacifolia* Wall. var. *andersonii* C.B.Clarke ex Kuntze

Distribution: Sikkim.

- Clematis barbellata** Edgew., Trans. Linn. Soc. Bot. 20: 25. 1851.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 223a)
- Clematis buchananiana** DC., Syst. Nat. 1: 140. 1817.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 100–1000 m. (Plate 223b)
- Clematis cadmia** Buch.-Ham. ex Hook.f. & Thomson, Fl. Brit. India 1: 2. 1872.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 500–1500 m.
- Clematis connata** DC., Prodr. 1: 4. 1824.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1600 m. (Plate 224a)
- Clematis florida** Thunb., Syst. Veg. ed. 14: 512. 1784.
Distribution: Himachal Pradesh.
- Clematis glauca** Willd., Berlin. Baumz. 65. 1796.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Clematis gouriana** Roxb. ex DC., Syst. Nat. 1: 138. 1817.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1000 m.
- Clematis grata** Wall., Pl. Asiat. Rar. 1: 83. 1830.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 500–1200 m. (Plate 224b)
- Clematis grewiiflora** DC., Syst. Nat. 1: 140. 1817.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 900–1800 m.
- Clematis graveolens** Lindl., J. Hort. Soc. London 1: 307. 1846.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Clematis ladakhiana** Grey-Wilson, Kew Bull. 44: 49. 1989.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; about 3850 m.
- Clematis manipurensis** (Brühl) W.T.Wang, Acta Phytotax. Sin. 38: 501. 2000. *C. montana* Buch.-Ham. ex DC. var. *manipurensis* Brühl
Distribution: Arunachal Pradesh; 2000–3000 m.
- Clematis meyeniana** Walp., Nov. Actorum Acad. Caes. Leop.-Carol. Nat. Cur. 19(Suppl. 1): 297. 1843.
Distribution: Arunachal Pradesh; 1400–1600 m.
- Clematis montana** Buch.-Ham. ex DC., Syst. Nat. 1: 164. 1817.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–4000 m.
- Clematis montana** Buch.-Ham. ex DC. var. **praecox** (Kuntze) Brühl, Ann. Roy. Bot. Gard. Calcutta 5(2): 73. 1896. *C. montana* Buch.-Ham. ex DC. subsp. *praecox* Kuntze
Distribution: Sikkim.

Clematis napaulensis DC., Syst. Nat. 1: 164. 1817.

Distribution: Sikkim, Uttarakhand; 1760–2000 m.

Clematis orientalis L., Sp. Pl. 543. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Clematis puberula Hook.f. & Thomson, Fl. Brit. India 1: 4. 1872.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Clematis roylei Rehder., Journ. Arn. Arb. 22: 575. 1941.

Distribution: Himachal Pradesh, Uttarakhand.

Clematis siamensis Drumm. & Craib, Bull. Misc. Inform. Kew 1915: 420. 1915.

Distribution: Arunachal Pradesh, Sikkim.

Clematis smilacifolia Wall., Asiat. Res. 13: 402. 1820.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 100–1200 m.

Clematis songorica Bunge var. **aspleniifolia** (Schrenk) Trautv., Bull. Soc. Imp. Naturalistes Moscou 33(1): 56. 1860. *C. aspleniifolia* Schrenk

Distribution: Jammu & Kashmir.

Clematis tangutica (Maxim.) Korsh., Izv. Imp. Akad. Nauk V, 9: 399. 1903. *C. orientalis* L. var. *tangutica* Maxim.

Distribution: Jammu & Kashmir.

Clematis tibetana Kuntze, Verh. Bot. Vereins Prov. Brandenburg 26: 172. 1885.

Distribution: Uttarakhand.

Clematis tibetana Kuntze var. **vernayi** (C.E.C.Fisch.) Grey–Wilson, Kew Bull. 44: 48. 1989. *C. vernayi* C.E.C.Fisch.

Distribution: Sikkim.

Clematis tongluensis Tamura, Acta Phytotax. Geobot. 19: 77. 1962.

Distribution: Sikkim; 2300–3500 m.

Clematis tortuosa Wall. ex C.E.C.Fisch., Bull. Misc. Inform. Kew 1929: 4. 1929.

Distribution: Himachal Pradesh, Sikkim.

Clematis wightiana Wall., Numer. List 4674. 1828.

Distribution: Arunachal Pradesh, Sikkim; 1800–2200 m.

Clematis zemuensis W.W.Sm., Rec. Bot. Surv. India 4: 166. 1911.

Distribution: Sikkim; 2745–3800 m.

Consolida (DC.) Gray

Consolida ajacis (L.) Schur., Verh. Mitth. Siebenbürg. Vereins Naturwiss. Hermannstadt 4(3): 47. 1853.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Consolida orientalis (J.Gay ex Des Moul.) Schrödinger, Abh. K.K. Zool.–Bot. Ges. Wien 4(5): 25. 1909. *Delphinium orientale* J.Gay ex Des Moul.

Distribution: Jammu & Kashmir.

Consolida schlagintweitii (Huth) Munz, J. Arn. Arb. 48: 191. 1967. *Delphinium schlagintweitii* Huth

Distribution: Jammu & Kashmir.

Coptis Salisb.

Coptis teeta Wall., Trans. Med. Soc. Calcutta 8: 87. 1836.

Distribution: Arunachal Pradesh; 1500–2500 m.

Delphinium L.

Delphinium altissimum Wall., Pl. Asiat. Rar. 2: 25. 1831.

Distribution: Arunachal Pradesh.

Delphinium brunonianum Royle, Ill. Bot. Himal. Mts. 56. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; about 4160 m.

(Plate 225a)

Delphinium caeruleum Jacquem. ex Cambess, Voy. Inde. 4: 7. 1841.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3000–5500 m.

Delphinium candelabrum Ostenf., South Tibet 6(3): 80. 1922.

Distribution: Sikkim.

Delphinium cashmerianum Royle, Ill. Bot. Himal. Mts. 55. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; about 4500 m.

(Plate 225b)

Delphinium densiflorum Duthie ex Huth, Bot. Jahrb. Syst. 20: 393. 1895.

Distribution: Himachal Pradesh, Uttarakhand.

Delphinium denudatum Wall. ex Hook.f. & Thomson, Fl. Ind. 1: 40. 1855.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Delphinium glaciale Hook.f. & Thomson, Fl. Ind. 1: 53. 1855.

Distribution: Sikkim; 4730–6500 m.

Delphinium incisum (Hook.f. & Thomson) Wall. ex Munz, J. Arnold Arbor. 48:

520. 1967. *D. ranunculifolium* Wall. var. *incisum* Hook.f. & Thomson

Distribution: Uttarakhand.

Delphinium kamaonense Huth, Bull. Herb. Boissier 1: 333. 1893.

Distribution: Uttarakhand.

Delphinium kohatense Munz, J. Arn. Arb. 48: 280. 1967.

Distribution: Jammu & Kashmir.

Delphinium koelzii Munz, J. Arn. Arb. 48: 522. 1967.

Distribution: Himachal Pradesh, Uttarakhand.

Delphinium lacostei Danguy, Journ. Bot. (Morot) 21: 50. 1908.

Distribution: Himachal Pradesh.

Delphinium lahulensis Agnihotri, T.Husain & D.Husain, Phytotaxa 186 (5): 287. 2014.

Distribution: Himachal Pradesh; 2743 m.

Delphinium ludlowii Munz, J. Arnold. Arbor. 49: 105. 1968.

Distribution: Sikkim.

Delphinium nordhagenii Wendelbo, Nytt Mag. Bot. 3: 327. 1954.

Distribution: Jammu & Kashmir.

(Plate 226a)

Delphinium nortonii Dunn, Bull. Misc. Inf. Kew. 1927: 247. 1927.

Distribution: Sikkim.

Delphinium pyramidale Royle, Ill. Bot. Himal. Mts. 56. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 226b)

Delphinium roylei Munz, J. Arn. Arb. 48. 292. 1967. *D. incanum* Royle

Distribution: Himachal Pradesh, Jammu & Kashmir.

Delphinium uncinatum Hook.f. & Thomson, Fl. Brit. India 1: 24. 1872.

Distribution: Jammu & Kashmir.

Delphinium umbrosum Hand.-Mazz. var **drepanocentrum** (Brühl ex Huth) W.T.Wang & M.J.Warnock, Phytologia 79(5): 384. 1995. *D. altissimum* Wall. var. *drepanocentrum* Brühl ex Huth

Distribution: Sikkim.

Delphinium vestitum Wall. ex Royle, Ill. Bot. Himal. Mts. 55. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 228)

Delphinium viscosum Hook.f. & Thomson, Fl. Ind.1: 52. 1855.

Distribution: Sikkim.

Dichocarpum W.T.Wang & Hsiao

Dichocarpum adiantifolium (Hook.f. & Thomson) W.T.Wang & Hsiao, Acta Phytotax. Sin. 9: 329. 1964. *Isopyrum adiantifolium* Hook.f. & Thomson

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Eriocapitella Nakai

Eriocapitella rupicola (Cambess.) Pusalkar, D.K.Singh & S.K.Srivast., Ind. J. Forest. 35(1): 108. 2012. *Anemone rupicola* Cambess.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Halerpestes Greene

Halerpestes sarmentosa (Adams) Kom., Key Pl. Far. East U.S.S.R. 1: 550. 1931.

Ranunculus sarmentosus Adams

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3900 m.

Halerpestes tricuspis (Maxim.) Hand.-Mazz., Act. Hort. Gothob. 13: 135. 1939.

Ranunculus tricuspis Maxim.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4100 m.

Isopyrum L.

Isopyrum anemonoides Kar. & Kir., Bull. Soc. Imp. Nat. Moscou 15: 135. 1842.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Naravelia DC.

Naravelia zeylanica (L.) DC., Syst. Nat. 1: 167. 1818. *Atragene zeylanica* L.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 500–1200 m.

Nigella L.

Nigella damascena L., Sp. Pl. 584. 1753.
Distribution: Himachal Pradesh.

Nigella sativa L., SP. Pl. 584. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Oxygraphis Bunge

Oxygraphis delavayi Franch., Bull. Soc. Bot. France 33: 374. 1886.
Distribution: Arunachal Pradesh; 4108 m.

Oxygraphis kumaonensis I.D.Rai & G.S. Rawat, Phytotaxa 230 (1): 92. 2015.
Distribution: Uttarakhand; 4050 m.

Oxygraphis polypetala (Royle) Hook.f. & Thomson, Fl. Ind. 1: 27. 1855.
Ranunculus polypetalus Royle
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2200–5300 m.

Paraquilegia J.R.Drumm. & Hutch.

Paraquilegia anemonoides (Willd.) O.E.Ulbr., Repert. Spec. Nov. Regni Veg. Beih. 12: 369. 1922. *Aquilegia anemonoides* Willd.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Paraquilegia gangotriana Pusalkar & D.K.Singh, Nelumbo 53: 221, f. 1A–J. 2011.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Paraquilegia microphylla (Royle) J.R.Drumm. & Hutch., Bull. Misc. Inform. Kew 1920(5): 157, f. 2. 1920.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–1600 m.

Paraquilegia uniflora (Aitch. & Hemsl.) J.R.Drumm. & Hutch., Bull. Misc. Inform. Kew 1920 (5): 158. 1920. *Isopyrum uniflorum* Aitch. & Hemsl.
Distribution: Himachal Pradesh, Jammu & Kashmir.

Paroxygraphis W.W.Sm.

Paroxygraphis sikkimensis W.W.Sm., Rec. Bot. Surv. India 4: 344. 1913.
Distribution: Sikkim.

Pulsatilla Mill.

Pulsatilla wallichiana (Royle) Ulbr., Notizbl. Bot. Gart. Berlin–Dahlem 9: 226. 1925. *Anemone wallichiana* Royle
Distribution: Himachal Pradesh, Jammu & Kashmir.

Ranunculus L.

Ranunculus adoxifolius Hand.-Mazz., Acta Horti Gothob. 13: 152. 1939.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–3500 m.

Ranunculus arvensis L., Sp. Pl. 555. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ranunculus aucheri Boiss., Ann. Sci. Nat., Bot. II, 16: 351. 1841.

Distribution: Jammu & Kashmir.

(Plate 229)

Ranunculus bikramii Aswal & Mehrotra, Indian J. For. 7: 62. 1984.

Distribution: Himachal Pradesh.

Ranunculus brotherusii Freyn, Bull. Herb. Boissier 6: 885. 1898.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–3300 m.

Ranunculus brotherusii Freyn var. **tanguticus** (Maxim.) Tamura, Acta Phytotax. Geobot. 23: 31. 1968. *R. affinis* R.Br. var. *tanguticus* Maxim.

Distribution: Arunachal Pradesh, Sikkim; 1800–3000 m.

Ranunculus cantoniensis DC., Prodr. 1: 43. 1824.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–3500 m.

Ranunculus chaerophyllos L., Sp. Pl. 555. 1753.

Distribution: Jammu & Kashmir.

Ranunculus diffusus DC., Prodr. 1: 38. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–1600 m.

Ranunculus distans D.Don, Ill. Bot. Himal. Mts. 53. 1834.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 600–1400 m.

Ranunculus felixii H.Lév., Repert. Spec. Nov. Regni Veg. 12: 281. 1913.

Distribution: Jammu & Kashmir, Sikkim.

Ranunculus ficariifolius H.Lév. & Vaniot, Bull. Soc. Bot. France 51: 289. 1904.

R. flaccidus Hook.f. & Thomson

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 1100–3800 m.

Ranunculus gaurii Dangwal & Rawat, J. Econ. Taxon. Bot. 20: 703. 1996.

Distribution: Uttarakhand.

Ranunculus hirtellus Royle, Ill. Bot. Himal. Mts. 53. 1834.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m.

Ranunculus hirtellus Royle var. **humilis** W.T.Wang, Bull. Bot. Res., Harbin 15(2): 176. 1995.

Distribution: Jammu & Kashmir, Uttarakhand.

Ranunculus hirtellus Royle var. **orientalis** W.T.Wang, Bull. Bot. Res., Harbin 15(2): 176. 1995.

Distribution: Uttarakhand; 3800 m.

Ranunculus hydrophilus Gaudich. ex Mirb., Annales des Sciences Naturelles (Paris) 5: 105. 1825.

Distribution: Sikkim.

Ranunculus hyperboreus Rottb., Skr. Kiøbenhavnske Selsk. Laerd. Elsk. 10: 458. 1770.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Ranunculus jacquemontii Riedl, Fl. W. Pakistan 143: 151. 1991.

Distribution: Sikkim, Uttarakhand.

Ranunculus kamchaticus DC., Syst. Nat. 1: 302. 1817.

Distribution: Uttarakhand.

Ranunculus lingua L., Sp. Pl. 549. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Ranunculus longicaulis Ledeb. ex Spreng., Tent. Suppl. 15. 1828.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim.

Ranunculus meinshausenii Schrenk, Bull. Cl. Phys.-Math. Acad. Imp. Sci. Saint-Pétersbourg 3: 309. 1845.

Distribution: Himachal Pradesh.

Ranunculus membranaceus Royle, Ill. Bot. Himal. Mts. 53. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Ranunculus microphyllus Hand.-Mazz., Symb. Sin. Pl. 7: 299. 1931.

Distribution: Sikkim, Uttarakhand.

Ranunculus munroanus J.R.Drumm. ex Dunn, Bull. Misc. Inform. Kew 1925: 279. 1925.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ranunculus muricatus L., Sp. Pl. 555. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ranunculus natans C.A.Mey., Fl. Alt. 2: 315. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmi, Uttarakhand; 4100 m.

Ranunculus nivalis L., Sp. Pl. 553. 1753.

Distribution: Sikkim, Uttarakhand.

Ranunculus palmatifidus Riedl., Kew Bull. 34: 262 .1979.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3950 m

Ranunculus pegaeus Hand.-Mazz., Acta Horti Gotob. 13: 141.1939.

Distribution: Sikkim, Uttarakhand.

Ranunculus pangiensis Watt., J. Linn. Soc., Bot. 18: 377. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Ranunculus pulchellus C.A.Mey., Fl. Alt. 2: 333. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4100 m.

Ranunculus pulchellus C.A.Mey. var. **stracheyanus** (Maxim) Hand.-Mazz., Acta Horti Gotob. 13: 147. 1939. *R. affinis* R. Br var. *stracheyanus* Maxim.

Distribution: Himachal Pradesh.

Ranunculus repens L., Sp. Pl. 554. 1753.

Distribution: Sikkim.

Ranunculus rionii Lager, Flora 31: 49. 1848.

Distribution: Jammu & Kashmir.

Ranunculus rubrocalyx Regel ex Kom., Trudy Imp. S.–Peterburgsk. Obsch. Estestvoisp., Vyp. 3, Otd. Bot. 26: 62. 1896.

Distribution: Himachal Pradesh.

Ranunculus rufosepalus Franch., Ann. Sci. Nat., Bot. VI, 15: 217. 1883.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Ranunculus sceleratus L., Sp. Pl. 551.1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1600 m.

Ranunculus sphaerospermus Boiss. & Blanche, Diagn. Pl. Orient. II, 5: 6. 1856.

Distribution: Jammu & Kashmir, Uttarakhand.

Ranunculus sikkimensis Hand.–Mazz., Acta Horti. Gothob. 13: 155. 1939.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Ranunculus stewartii Riedl, Kew Bull. 34: 264. 1979.

Distribution: Jammu & Kashmir, Uttarakhand.

Ranunculus subpinnatus Wight & Arn., Prodr. Fl. Ind. Orient. 4: 1834.

Distribution: West Bengal (Darjeeling).

Ranunculus trichophyllus Chaix ex Vill., Hist. Pl. Dauph. 1: 335. 1786.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4150 m.

Ranunculus trigonus Hand.–Mazz., Symb. Sin. 7(2): 304, taf. 6, pl. 12–13. 1931.

Distribution: Arunachal Pradesh.

Ranunculus trilobus Desf., Fl. Atlant. 1: 437. 1798.

Distribution: Sikkim, Uttarakhand.

Ranunculus trivedii Aswal & Mehrotra, J. Econ. Taxon. Bot. 4: 1027. 1983.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Ranunculus uttaranchalensis Pusalkar & D.K.Singh, Nordic J. Bot. 24: 403. 2006 (2007).

Distribution: Uttarakhand.

Thalictrella A.Rich.

Thalictrella ludlowii (Tamura & Lauener) E. Nardi, Webbia 47: 228. 1993.

Distribution: Jammu & Kashmir.

Thalictrum L.

Thalictrum acaule Jacquem. ex Cambess., Voy. Inde 4: 3. 1841.

Distribution: Uttarakhand.

Thalictrum alpinum L., Sp. Pl. 545.1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2800–5300 m.

Thalictrum chelidonii DC., Prodr. 1: 11. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2300–3600 m. **(Plate 227b)**

Thalictrum cultratum Wall., Pl. Asiat. Rar. 2: 26. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1700–4300 m.

Thalictrum elegans Wall. ex Royle, Ill. Bot. Himal. Mts. 1: 51. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2700–4200 m.

Thalictrum falconeri Lecoy., Bull. Soc. Roy. Bot. Belgique 24: 192. 1885.

Distribution: Sikkim.

Thalictrum foetidum L., Sp. Pl. 545. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Thalictrum foliolosum DC., Syst. Nat. 1: 175. 1817.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1300–3400 m.

Thalictrum javanicum Blume, Bijdr. Fl. Ned. Ind. 2. 1825.

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 1500–3800 m.

Thalictrum minus L., Sp. Pl. 546. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 500–1300 m.

Thalictrum minus L. var. **hypoleucum** (Siebold & Zucc.) Miq., Ann. Mus. Bot. Lugduno-Batavi 3: 3. 1867. *T. hypoleucum* Siebold & Zucc.

Distribution: Uttarakhand.

Thalictrum nainitalense H. Singh, A. Srivastava & Husain, Folia Geobot. 2018.

Distribution: Uttarakhand.

Thalictrum pedunculatum Edgew., Trans. Linn. Soc. London 20: 27. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Thalictrum platycarpum Hook.f. & Thomson, Fl. Ind. 1: 13. 1855.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Thalictrum punduanum Wall., Pl. Asiat. Rar. 2: 26. 1831.

Distribution: Uttarakhand.

Thalictrum reniforme Wall., Pl. Asiat. Rar. 2: 26. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2800–3700 m.

Thalictrum rostellatum Hook.f. & Thomson, Fl. Ind. 1: 15. 1855.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2300–3600 m.

Thalictrum rutifolium Hook.f. & Thomson, Fl. Ind. 1: 14. 1855.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Thalictrum saniculiforme DC., Prodr. 1: 12. 1824. *T. radiatum* Royle

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 2500–4000 m.

Thalictrum secundum Edgew., Trans. Linn. Soc. London 20: 26. 1851. *T. pauciflorum* Royle

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand

Thalictrum squamiferum Lecoy., Bull. Soc. Roy. Bot. Belgique 16: 227. 1880.

Distribution: Sikkim.

Thalictrum virgatum Hook.f. & Thomson, Fl. Ind. 1: 14. 1855.

Distribution: Sikkim, Uttarakhand; 2100–4500 m.

Trollius L.

Trollius acaulis Lindl., Bot. Reg. 28 (Misc). 56. 1842.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4300 m.

Trollius farreri Stapf., Bot. Mag. 152: pl. 9143. 1928.

Distribution: Arunachal Pradesh.

Trollius pumilus D.Don, Prodr. Fl. Nepal. 195. 1825.

Distribution: Sikkim, Uttarakhand; 3600–5500 m.

RESEDACEAE

(1 genus; 1 taxon)

Oligomeris Cambess.

Oligomeris linifolia (Vahl ex Hornem.) J.F.Macbr., Contr. Gray Herb. 53: 13. 1918.

Reseda linifolia Vahl ex Hornem.

Distribution: Jammu & Kashmir.

RHAMNACEAE

(9 genera; 49 taxa)

Berchemia Neck. ex DC.

Berchemia edgeworthii Lawson in Hook.f., Fl. Brit. India 1: 638. 1875.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2100–4500 m.

Berchemia flavescens (Wall.) Wall. ex Brongn., Ann. Sci. Nat. (Paris) 10: 357. 1827. *Ziziphus flavescens* Wall.

Distribution: Sikkim; 1200–4000 m.

Berchemia floribunda (Wall.) Brongn., Mem. Fam. Rham. 50, t. 2.1. 1827. *Ziziphus floribunda* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 600–1600 m.

Berchemia jainiana Pusalkar & D.K.Singh, Bull. Bot. Surv. India 50: 9, f. 1. 2009.

Distribution: Uttarakhand.

Berchemia lineata (L.) DC., Prodr. 2: 23. 1825. *Rhamnus lineata* L.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Gouania Jacq.

Gouania leptostachya DC., Prodr. 2: 40. 1825.

Distribution: Sikkim, Uttarakhand; 150–1800 m.

Gouania microcarpa DC., Prodr. 2: 40. 1825.

Distribution: Jammu & Kashmir.

Gouania napalensis Wall., Roxb., Fl. Ind 2: 417. 1824.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–1600 m.

Gouania tiliifolia Lam., Encycl. Meth. Bot. 3: 4. 1789. *G. leptostachya* DC.

Distribution: Arunachal Pradesh; 500–1000 m.

Helinus E.Mey. ex Endl.

Helinus lanceolatus Brandis, For. Fl. N.W. & Cent. India 574. 1874.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Hovenia Thunb.

Hovenia acerba Lindl., Bot. Reg. 6: t. 501. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1000–1500 m.

Hovenia dulcis Thunb., Nov. Gen. 8. 1781.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Paliurus Mill.

Paliurus spina-christi Mill., Gard. Dict. 8. 1768.

Distribution: Himachal Pradesh.

Rhamnus L.

Rhamnus colletti Bhandari & Bhansali, J. Econ. Taxon. Bot. 5: 913. 1984.

Distribution: Himachal Pradesh.

Rhamnus napalensis (Wall.) Lawson in Hook.f., Fl. Brit. India 1(3): 640. 1875.

Ceanothus napalensis Wall.

Distribution: Arunachal Pradesh, Sikkim; 1600–1800 m.

- Rhamnus pentapomica** R.Parker, Kew Bull. 1921: 216. 1921.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Rhamnus persica** Lawson, Fl. Brit. India 1: 638. 1875.
Distribution: Jammu & Kashmir, Uttarakhand.
- Rhamnus procumbens** Edgew., Trans. Linn. Soc. London 20(1): 43–44. 1846.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.
- Rhamnus prostrata** Jacq., Journ. 2: 346. 1841.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Rhamnus purpurea** Edgew., Trans. Linn. Soc. London 20: 44. 1846.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Rhamnus triquetra** (Wall.) Brandis, Forest Fl. N.W. India 92. 1874. *Ceanothus triquetrus* Wall.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Rhamnus triqueter** (Wall. ex Roxb.) Lawson, Fl. Brit. India 1: 639. 1875. *Ceanothus triqueter* Wall. ex Roxb.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 2100 m.
- Rhamnus virgata** Roxb., Fl. Ind. 2: 351. 1824.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 600–1200 m.
- Sageretia** Brongn.
- Sageretia brandrethiana** Aitch., J. Linn. Soc. 8: 62. 1865.
Distribution: Jammu & Kashmir.
- Sageretia devendrae** Pussalakar, Nordic J. Bot. 28: 51. 2010.
Distribution: Himachal Pradesh, Uttarakhand.
- Sageretia filiformis** (Roth) G.Don, Gen. Syst. 2: 29. 1832. *Rhamnus filiformis* Roth
Distribution: Arunachal Pradesh, Himachal Pradesh; 600–1800 m.
- Sageretia hamosa** (Wall.) Brongn., Mem. Fam. Rhamees. 53. 1826. *Izyphus hamosa* Wall.
Distribution: Uttarakhand; upto 1800 m.
- Sageretia kashmirensis** Bhandari & Bhansali, J. Econ. Tax. Bot. 5(4): 923. f. 2. 1984.
Distribution: Jammu & Kashmir; 600–2000 m.
- Sageretia kishtawarensis** Bhandari & Bhansali, J. Econ. Tax. Bot. 5(4): 923. f. 3. 1984.
Distribution: Jammu & Kashmir.
- Sageretia parviflora** G.Don, Gen. Hist. 2: 29. 1832.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2100 m.

Sageretia santapau Pusalkar & D.K.Singh, Nordic J. Bot. 28: 49. 2010.

Distribution: Uttarakhand.

Sageretia thea (Osbeck) M.C.Johnst., Arnold Arbor. 49(3): 378. 1968. *Rhamnus thea* Osbeck

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 2400 m.

Ventilago Gaertn.

Ventilago denticulata Willd., Neue Schriften Ges. Naturf. Freunde Berlin 3: 417. 1801.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 300–1300 m.

Ventilago maderaspatana Gaertn., Fruct. 1: 223, t. 49. f. 2. 1788.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1300 m.

Ziziphus Mill.

Ziziphus apetala Hook.f. ex Lawson, Fl. Brit. India 1: 635. 1875.

Distribution: Arunachal Pradesh, Sikkim; 100–500 m.

Ziziphus caracutta Buch.-Ham ex Roxb., Fl. Ind. 2: 3641. 1824.

Distribution: Uttarakhand.

Ziziphus funiculosa Buch.-Ham. ex Wall. Numer. List 4234. 1831.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 500–1000 m.

Ziziphus glabrata B.Heyne ex Roth, Nov. Pl. Sp. 159. 1821.

Distribution: Himachal Pradesh, Jammu & Kashmir, West Bengal (Darjeelling).

Ziziphus hysudricus (Edgew.) Hole, Indian For. 44: 505. 1918. *Z. jujuba* Mill. var. *hysudrica* Edgew.

Distribution: Himachal Pradesh.

Ziziphus incurva Roxb., Fl. Ind. 2: 364. 1824.

Distribution: Sikkim, Uttarakhand.

Ziziphus jujuba Mill., Gard. Dict. ed. 8: 1. 1768.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 100–600 m.

Ziziphus jujuba Mill. sbsp. **spinosa** (Bunge) Hu ex H.F.Chow, Familiar Trees Hopei 307. 1934. *Z. vulgaris* Lam. var. *spinosa* Bunge

Distribution: Jammu & Kashmir; upto 2300 m.

Ziziphus nummularia (Burm.f.) Wight. & Arn., Cat. Ind. Pl. 31. 1833. *Rhamnus nummularia* Burm.f.

Distribution: Himachal Pradesh, Uttarakhand.

Ziziphus oenopolia (L.) Mill, Gard. Diet. ed. 8: 3. 1768. *Rhamnus oenophlia* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 100–500 m.

Ziziphus oxyphylla Edgew., Trans. Linn. Soc. London, Bot. 20: 43. 1846.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ziziphus oxyphylla Edgew. var. **pedicellaris** Bhandari & Bhansali, Fasc. Fl. India 20: 108. 1990.

Distribution: Uttarakhand.

Ziziphus rugosa Lam., Encycl. 3(1): 319. 1789.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1200 m.

Ziziphus rugosa Lam. var. **glabrescens** Prain, Fl. Assam 1: 282. 1935.

Distribution: Arunachal Pradesh; 100–500 m.

Ziziphus xylopyrus (Retz.) Willd., Sp. Pl. 1: 1104. 1798. *Rhamnus xylopyrus* Retz.

Distribution: Jammu & Kashmir, Uttarakhand.

RHIZOPHORACEAE

(1 genus; 1 taxon)

Carallia Roxb.

Carallia brachiata (Lour.) Merr., Philipp. J. Sci. 15: 249. 1919. *Diatoma brachiata* Lour.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1500 m. (Plate 230a)

ROSACEAE

(37 genera; 393 taxa)

Acomastylis Greene

Acomastylis elata (Royle) F.Bolle, Repert. Spec. Nov. Regni Veg. Beih. 72: 83. 1933. *Sieversia elata* Royle

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–5400 m.

Acomastylis macrosepala (Ludlow) T.T.Yu & C.L.Li, Flora reipublicae popularis sinicae: 1974. 225, pl.33, f.1–6. 1985. *Geum macrosepalum* Ludlow

Distribution: Sikkim; 4100–4500 m.

Agrimonia L.

Agrimonia aitchisonii Schonbeck-Tem., Flora Iranica 1969: 151, t.56. 1969.

Distribution: Jammu & Kashmir, Uttarakhand.

Agrimonia aitchisonii Schönb.-Tem. var. **pedicellata** K.M.Purohit & Panigrahi, Fam. Rosaceae India 1: 182. 1991.

Distribution: Uttarakhand; 2500 m.

Agrimonia eupatoria L., Sp. Pl. 1: 448. 1753.

Distribution: Himachal Pradesh, Jammu and Kashmir; 1800–3500 m. (Plate 230c)

Agrimonia pilosa Ledeb., Ind. Sem. H. Dorpat. Suppl. 1. 1823.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2500 m.

Alchemilla L.

Alchemilla aksharmae K.M.Purohit & G.Panigrahi, Fam. Rosac. in India 1: 194. 1991.

Distribution: Jammu & Kashmir.

Alchemilla brummittii K.M.Purohit & G.Panigrahi, Fam. Rosac. in India 1: 196. 1991.

Distribution: Jammu & Kashmir.

Alchemilla ceciliae K.M.Purohit & G.Panigrahi, Fam. Rosac. in India 1: 197. 1991.

Distribution: Jammu & Kashmir.

Alchemilla chthamalea Rothm., Bull. Misc. Inform. Kew 1938(7): 274.

Distribution: Jammu & Kashmir, Uttarakhand.

Alchemilla connivens Buser, Bull. Herb. Boissier 2(2): 107–111. 1894.

Distribution: Jammu & Kashmir.

Alchemilla duthieana Panigrahi & K.M.Purohit, Fam. Rosac. India 1: 200. 1991.

Distribution: Jammu & Kashmir.

Alchemilla gilgitensis K.M.Purohit & Panigrahi, Fam. Rosac. India 1: 202. 1991.

Distribution: Jammu & Kashmir.

Alchemilla kishangangensis Panigrahi & K.M.Purohit, Fam. Rosac. India 1: 203. 1991.

Distribution: Jammu & Kashmir.

Alchemilla kungwatanensis K.M.Purohit & Panigrahi, Fam. Rosac. India 1: 205. 1991.

Distribution: Jammu & Kashmir.

Alchemilla nicolsonii K.M.Purohit & Panigrahi, Fam. Rosac. in India 1: 208. 1991.

Distribution: Jammu & Kashmir.

Alchemilla niltarensis K.M.Purohit & Panigrahi, Fam. Rosac. India 1: 209. 1991.

Distribution: Jammu & Kashmir.

Alchemilla palii Panigrahi & K.M.Purohit, Fam. Rosac. India 1: 211. 1991.

Distribution: Uttarakhand; 4500–6000 m.

Alchemilla rothmaleri Panigrahi & K.M.Purohit, Fam. Rosac. India 1: 214. 1991.

Distribution: Jammu & Kashmir.

Alchemilla samantaraii K.M.Purohit & Panigrahi, Fam. Rosac. India 1: 215. 1991.

Distribution: Jammu & Kashmir.

Alchemilla sarojiniae K.M.Purohit & Panigrahi, Fam. Rosac. India 1: 216. 1991.

Distribution: Jammu & Kashmir.

Alchemilla sojakii Plocek, Folia Geobot. Phytotax. 21(4): 427. 1986.

Distribution: Jammu & Kashmir.

Alchemilla trollii Rothm., Bull. Misc. Inform. Kew 1938(7): 272. 1938.

Distribution: Jammu & Kashmir.

Alchemilla waltersii K.M.Purohit & Panigrahi, Fam. Rosac. in India 1: 219. 1991.
Distribution: Jammu & Kashmir.

Alchemilla ypsilotoma Rothm., Bull. Misc. Inform. Kew 1938(7): 273. 1938.
Distribution: Jammu & Kashmir.

Aria (Pers.) Host

Aria lanata (D.Don) Decne., Nouv. Arch. Mus. Par. Ser. I, x. 163. 1874. *Pyrus lanata* D.Don
Distribution: Jammu & Kashmir, Uttarakhand.

Aruncus L.

Aruncus dioicus (Walter) Fernald, Rhodora 41: 423. 1939. *Actaea dioica* Walter.
Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2000–2200 m.

Aruncus dioicus (Walter) Fernald var. **triternatus** (Wall. ex Maxim.) H. Hara, J. Jap. Bot. 30(3): 68. 1955. *A. sylvester* Kostel. ex Maxim. var. *triternatus* Wall. ex Maxim.
Distribution: Sikkim; 1800–4200 m.

Aruncus gombalanus (Hand.-Mazz.) Hand.-Mazz., Akad. Wiss. Wien, Math.–Naturwiss. Kl., Anz. 60: 152. 1923. *Pleiosepalum gombalanum* Hand.-Mazz.
Distribution: Arunachal Pradesh; 4000 m.

Brachycaulos Dikshit & Panigrahi

Brachycaulos simplicifolius Dikshit & Panigrahi, Bull. Mus. Natl. Hist. Nat., B, Adansonia Sér. 4, 3(1): 58. 1981.
Distribution: Sikkim; Upto 4575 m.

Chamaerhodos Bunge

Chamaerhodos sabulosa Bunge, Fl. Altaic. 1: 432. 1829.
Distribution: Jammu & Kashmir, Uttarakhand; 3700–4500 m.

Coluria R. Br.

Coluria longifolia Maxim., Bull. Acad. Imp. Sci. Saint–Petersbourg, sér. 3. 27(4): 466–467. 1882.
Distribution: Sikkim; 3600–4600 m.

Comarum L.

Comarum salesovianum (Stephan) Asch. & Graebn., Syn. Mitteleur. Fl. 6: 663. 1904. *Potentilla salesoviana* Stephan
Distribution: Jammu & Kashmir.

Cotoneaster Medik.

Cotoneaster acuminatus Lindl., Trans. Linn. Soc. London 13: 10l. t. 9. 1821.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Cotoneaster adpressus Bois, Frutic. Vilmor. 1: 116. 1904.

Distribution: Sikkim, Uttarakhand; 3900 m.

Cotoneaster affinis Lindl., Trans. Linn. Soc. London 13(1): 101. 1821.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–2200 m.

Cotoneaster afghanicus G.Klotz, Wiss. Zeitschr. Mart.–Luth. Univ. Halle, Math.–Nat. 15. 532. 1966.

Distribution: Jammu & Kashmir.

Cotoneaster aitchisonii C.K.Schneid., Ill. Handb. Laubholzk. 1: 749. 1906.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2200 m.

Cotoneaster assamensis Klotz, Wiss. Zeits. Univ. Halle, Math. Nat 21(5–6): 996. 1972.

Distribution: Arunachal Pradesh; 2500–3500 m.

Cotoneaster bacillaris Walli. ex Lindl., Edw., Bot. Reg. 15: t. 1229. 1829.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1600–2000 m.

Cotoneaster brandisii Klotz, Wiss. Zeitschr. Mart. Luth. Univ. Halle, Math. Nat. 15: 537. 1966.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2200 m.

Cotoneaster buxifolius Wall. ex Lindl., Bot. Reg. 15, subt. 1229. 1829.

Distribution: Himachal Pradesh; 2000–2500 m.

Cotoneaster cashmirensis Klotz, Wiss. Zeitschr. Mart. Luth. Univ. Halle, Math. Nat. 12: 778. 1963.

Distribution: Himachal Pradesh, Jammu & Kashmir; 2200–2300 m.

Cotoneaster chengkangensis T.T. Yu, Acta Phytotax. Sin. 8. 220. 1963.

Distribution: Arunachal Pradesh; 1850 m.

Cotoneaster confusus G. Klotz, Wiss. Z. Friedrich–Schiller–Univ. Jena, Math.–Naturwiss. Reihe 19(3): 340. 1970.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Cotoneaster congestus Baker, Refugium botanicum: 1868 t.51. 1869.

Distribution: Sikkim, Uttarakhand; 3800 m.

Cotoneaster duthieanus (C.K.Schneid.) Klotz., Bull. Bot. Surv. India 5: 211. 1964. *C. distichus* Lange var. *duthieana* C.K. Schneid.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2500–3500 m.

Cotoneaster ellipticus (Lindl.) Loudon, Encyc. Pl. 1208. *Eriobotrya elliptica* Lindl.

Distribution: Jammu & Kashmir, Uttarakhand; 1000–3500 m.

Cotoneaster falconeri Klotz., Wissen. Zeit. Martin. Luther Univ. Halle, Math. Nat. 15: 535. 1966.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2500–3500 m.

- Cotoneaster frigidus** Wall. ex Lindl., Edw., Bot. Reg. 15: t. 1229. 1829.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2500–3500 m. (Plate 231b)
- Cotoneaster gamblei** G.Klotz, Wiss. Zeitschr. Mart.–Luth. Univ. Halle, Math.–Nat. xv. 530. 1966.
Distribution: Uttarakhand; 3200 m.
- Cotoneaster gilgitensis** G.Klotz., Wiss Z. Univ. Halle 15: 539. 1966.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1000–3500 m.
- Cotoneaster glacialis** (Hook.f. ex Wenz.) Panigrahi & Arv. Kumar, Bull. Bot. Surv. India 28(1–4): 75. 1988. *C. microphyllus* Wall. ex Lindl. var. *glacialis* Hook.f. ex Wenz.
Distribution: Sikkim; 2100–4500 m.
- Cotoneaster hissaricus** Pojark., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 16: 124. 1954.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1000–1500 m.
- Cotoneaster humilis** Dunn, Bull. Misc. Inform. Kew 1924(10): 384.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1000–2500 m.
- Cotoneaster ignotus** G.Klotz, Wiss. Z. Friedrich–Schiller–Univ. Jena, Math.–Naturwiss. Reihe 19(3): 339. 1970.
Distribution: Uttarakhand; 2900 m.
- Cotoneaster insignis** Pojark., Fl. USSR. 9. 330. 1939.
Distribution: Jammu & Kashmir.
- Cotoneaster integerrimus** Medik., Gesch. Bot. 85. 1793.
Distribution: Himachal Pradesh, Jammu & Kashmir; 2000–2500 m.
- Cotoneaster integrifolius** (Roxb.) G.Klotz., Wiss. Zeitschr. Mart. Luth. Univ. Halle, Math. Nat. 12: 779. 1963. *Crataegus integrifolia* Roxb.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–2200 m.
- Cotoneaster kaganensis** G.Klotz, Wiss. Zeitschr. Mart.–Luth. Univ. Halle, Math.–Nat. xv. 541. 1966.
Distribution: Jammu & Kashmir.
- Cotoneaster lambertii** G. Klotz, Wiss. Z. Friedrich–Schiller–Univ. Jena, Math.–Naturwiss. Reihe 19(3): 343. 1970.
Distribution: Jammu & Kashmir.
- Cotoneaster marginatus** (Loudon) Schldl., Linnaea 27: 541. 1856. *C. buxifolia* Wall. ex Lindl. var. *marginata* Loudon.
Distribution: Himachal Pradesh, Uttarakhand; 1000–3500 m.
- Cotoneaster meuselii** G.Klotz, Wiss. Zeitschr. Mart. Luth. Univ. Halle, Math. Nat. 12: 777. 1963.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2300 m.
(Plate 230b)

Cotoneaster microphyllus Wall. ex Lindl., Edw. Bot. Reg. 13: t. 1114. 1827.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–4000 m. (Plate 231a)

Cotoneaster minutus G. Klotz, Wiss. Zeitschr. Mart.–Luth. Univ. Halle, Math.–Nat. 12. 763. 1963.

Distribution: Jammu & Kashmir.

Cotoneaster multiflorus Bunge, Fl. Altaic. 2: 220–221. 1830.

Distribution: Jammu & Kashmir.

Cotoneaster nitidus Jacques, Journ. Soc. Imp. Centr. Hort. v. 516. 1859.

Distribution: Sikkim; 2250–3200 m.

Cotoneaster nitidus Jacques var. **parvifolius** (T.T.Yu) T.T.Yu, Flora in desertis reipublicae popularum sinarum: 1985. 167. 1974. *C. distichus* Wall. ex Lindl. var. *parvifolius* T.T.Yu

Distribution: Sikkim.

Cotoneaster nummularius Fisch. & C.A.Mey., Ind. Sem. Horti. Petrop. 2: 31. 1835.

Distribution: Himachal Pradesh; 2200–2500 m.

Cotoneaster nummularioides Pojark., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 16: 128. 1954.

Distribution: Jammu & Kashmir.

Cotoneaster obtusus Wall. ex Lindl., Bot. Reg. Sub. tab. 1229. 1827.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2300 m.

Cotoneaster osmastonii G.Klotz, Wiss. Zeitschr. Mart.–Luth. Univ. Halle, Math.–Nat. xv. 850. 1966.

Distribution: Uttarakhand; 2950 m.

Cotoneaster pangiensis G.Klotz, Wiss. Z. Friedrich–Schiller–Univ. Jena, Math.–Naturwiss. Reihe 19(3): 342. 1970.

Distribution: Uttarakhand; 2850 m.

Cotoneaster x **parkeri** G.Klotz., Wiss. Zeitschr. Mart. Luth. Univ. Halle, Math. Nat. 15. 1850. 1966.

Distribution: Himachal Pradesh; 2000–2300 m.

Cotoneaster parkinsonii Panigrahi & Arv. Kumar, Bull. Bot. Surv. India 31(1–4): 110. 1992.

Distribution: Uttarakhand; 2450 m.

Cotoneaster prostratus Baker, Saunders, Refug. Bot. 1. t. 53. 1869.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3200 m.

Cotoneaster pruinosisus G.Klotz., Wissen. Zeit. Martin Luth. Univ. Halle, Math. Nat. 15: 533. 1966.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2300 m.

Cotoneaster racemiflorus (Desf.) K.Koch, Dendr. 1: 170. 1869. *Mespilus racemiflora* Desf.

Distribution: Sikkim.

Cotoneaster roseus Edgew., Trans. Linn. Soc. London 20(1): 46. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2500 m.

Cotoneaster rotundifolius Wall. ex Lindl., Bot. Reg. 15: Sub. t. 1229. 1829.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3300 m.

Cotoneaster rubens W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 10: 24. 1917.

Distribution: Sikkim; 2000–3000 m.

Cotoneaster sandakphuensis G.Klotz, Bull. Bot. Surv. India 5: 213. 1964.

Distribution: Sikkim.

Cotoneaster sanguineus T.T.Yu, Bull. Brit. Mus. Nat. Hist. Bot. 1: 130, pl. 4. 1954.

Distribution: Arunachal Pradesh; 2500–4000 m.

Cotoneaster schlechtendalii G.Klotz, Wiss. Zeit. Univ. Halle, Math. Nat. 12(10) : 776. 1963.

Distribution: Himachal Pradesh, Uttarakhand; 2700–3300 m.

Cotoneaster schubertii G.Klotz., Wiss. Zeitsch. Mart. Luth. Univ. Halle, Math. Nat. 12(10): 759. 1963.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2300 m.

Cotoneaster simonsii Hort. ex Baker, Refugium botanicum; 1868. t.55. 1869.

Distribution: Sikkim, Uttarakhand.

Cotoneaster stracheyi G.Klotz., Wiss. Zeitsch. Mart. Luth. Univ. Halle, Math. Nat. 15: 854. 1966.

Distribution: Himachal Pradesh, Uttarakhand; 2000–2500 m.

Cotoneaster transcaucasicus Pojark., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 21: 162. 1961.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2300 m.

Cotoneaster wallichianus G.Klotz, Wiss. Zeitschr. Mart.-Luth. Univ. Halle, Math.-Nat. xv. 541. 1966.

Distribution: Sikkim; 3000 m.

Cotoneaster wattii G.Klotz, Wiss. Z. Friedrich-Schiller-Univ. Jena, Math.-Naturwiss. Reihe 19 (3): 342. 1970.

Distribution: Uttarakhand; 2700 m.

Crataegus L.

Crataegus clarkii Hook.f., Fl. Brit. India (Rosaceae): 383. 1878.

Distribution: Jammu & Kashmir.

Crataegus songarica K.Koch, Verh. Beford. Gartnrb. Preuss 1: 287. 1853.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2500–4000 m.

Cydonia Mill.

Cydonia oblonga Mill., Gard. Dict. ed. 8. No. 1. 1768.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2000–2500 m.

Docynia Decne.

Docynia indica (Wall.) Decne., Nouv. Arch. Mus. Paris 10: 131. t.14. 1874. *Pyrus indica* Wall.

Distribution: Arunachal Pradesh, Sikkim; 1500–1800 m.

Duchesnea Sm.

Duchesnea indica Focke, Pflanzenfam. 3(3): 33. 1888.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–1800 m. **(Plate 231c)**

Eriobotrya Lindl.

Eriobotrya bengalensis (Roxb.) Hook.f., Fl. Brit. India 2: 371. 1878. *Mespilus bengalensis* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 2000–3500 m.

Eriobotrya dubia Decne., Nouv. Arch. Mus. Paris 10: 145. 1874.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–1600 m.

Eriobotrya hookeriana Decne., Nouv. Arch. Mus. Par. Ser. 1. 10. 146. 1874.

Distribution: Sikkim, 1500–2300 m. **(Plate 232a)**

Eriobotrya japonica (Thunb.) Lindl., Trans. Linn. Soc. London 13: 102. 1821. *Mespilus japonica* Thunb.

Distribution: Uttarakhand; 2000 m.

Eriobotrya petiolata Hook.f., Fl. Brit. India 2: 370. 1878.

Distribution: Arunachal Pradesh, Sikkim; 2000–2500 m.

Filipendula Mill.

Filipendula vestita (Wall. ex G.Don) Maxim., Acta Horti Petrop. 6: 248. 1879. *Spiraea vestita* Wall. ex G.Don

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–2500 m. **(Plate 247a)**

Fragaria L.

Fragaria daltoniana J.Gay, Ann. Sci. Nat. Bot. ser. 4. 8: 204. 1857.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2500–4500 m.

Fragaria nilgerrensis Schldtl. ex J.Gay, Ann. Sci. Nat. Bot. Ser. 4. 8: 206. 1857.

Distribution: Arunachal Pradesh, Sikkim; 2000–3000 m.

Fragaria nubicola (Lindl. ex Hook.f.) Lacaita, J. Linn. Soc. Bot. 43: 467. *F. vesca* L. var. *nubicola* Lindl. ex Hook.f.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1800–2500 m. (Plate 232b)

Fragaria rubiginosa Lacaita, J. Linn. Soc., Bot. xliii. 467. 1916.

Distribution: Uttarakhand.

Fragaria vesca L., Sp. Pl. 494. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.

Geum L.

Geum aequilobatum K.M.Purohit & Panigrahi, Bull. Bot. Surv. India 21(1–4): 205. 1981.

Distribution: Uttarakhand; 3000 m.

Geum aleppicum Jacq., Collectanea 1:88. 1787.

Distribution: Jammu & Kashmir.

Geum elatum Wall. & G.Don f. **rubrum** Ludlow, Bull. Brit. Mus. Nat. Hist. Bot. 5(5): 276. 1976.

Distribution: Jammu & Kashmir, Uttarakhand.

Geum roylei Wall., Numer. List n. 713. 1829.

Distribution: Jammu & Kashmir, Uttarakhand.

Geum sikkimense Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(5): 200. 1904.

Distribution: Sikkim; 4100–4500 m.

Geum urbanum L., Sp. Pl. 1: 501. 1753.

Distribution: Himachal Pradesh; 2000–3000 m.

Kerria DC.

Kerria japonica (L.) DC., Trans. Linn. Soc. Bot. London 12: 157. 1817. *Rubus japonicus* L.

Distribution: Himachal Pradesh; 2000–3000 m.

Maddenia Hook.f. & Thomson

Maddenia himalaica Hook.f. & Thomson, Hooker's J. Bot. Kew Gard. Misc. 6: 381. 1854.

Distribution: Sikkim; 2500–3200m.

Malus Mill.

Malus baccata (L.) Borkh., Theor. Prakt. Handb. Forstbot. 2: 1280. 1803. *Pyrus baccata* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–2300 m.

Malus pumila Mill., Gard. Dict. ed. 8. n. 3. 1768.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Malus sikkimensis (Wenz.) Koehne, Gatt. Pomac. 27. 1890. *Pyrus pashia* Buch.-Ham. ex. D.Don var. *sikkimensis* Wenz.

Distribution: Arunachal Pradesh, Sikkim; 2500–3500 m.

Neillia D.Don

Neillia rubiflora D.Don, Prodr. Fl. Nep. 229. 1825.

Distribution: Arunachal Pradesh, Sikkim; 1600–2500 m.

Neillia thyrsoflora D.Don, Prodr. Fl. Nep. 228. 1825.

Distribution: Arunachal Pradesh, Sikkim; 1500–2500 m.

Neillia thyrsoflora D.Don var. **tunkinensis** (Vidal) Vidal, Adansonia 3: 153. Pl. 1. f. 7–8. 1963. *N. tunkinensis* D.Don var. *bibractcalata* Vidal

Distribution: Arunachal Pradesh; 1000–1500 m.

Padus Mill.

Padus integrifolia T.T. Yu & T.C. Ku, Acta Phytotax. Sin. 23(3): 212. 1985.

Distribution: Uttarakhand.

Photinia Lindl.

Photinia arguta Wall. ex Lindl., Edwards's Bot. Reg. 23: sub t. 1956. 1837.

Distribution: Sikkim; 3000–4200 m.

Photinia arguta Wall. ex Lindl. var. **hookeri** (Decne.) J.E. Vidal, Adansonia 5: 229. 1965. *Pourthiaea hookeri* Decne.

Distribution: Arunachal Pradesh; 800–1200 m.

Photinia cuspidata (Bertol.) Balakr., Fl. Jowai 1: 192. 1981. *Pyrus cuspidata* Bertol.

Distribution: Arunachal Pradesh; 1500–2200 m.

Photinia glomerata Rehder & E.H. Wilson, Pl. Wilson. 1(2): 190–191. 1912.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Photinia integrifolia Lindl., Trans. Linn. Soc. London 13: 103. 1821.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2500 m.

Photinia integrifolia Lindl. var. **sublanceolata** Miq., Fl. Ned. Ind. 1(1): 387. 1855.

Distribution: Arunachal Pradesh; 1600–2000 m.

Photinia nussia (D.Don) Kalkman, Blumea 21(2): 429. 1973. *Pyrus nussia* D. Don

Distribution: Uttarakhand; 2800 m.

Photinia wardii C.E.C.Fisch., Kew Bull. 1963: 281. 1936.

Distribution: Arunachal Pradesh; 1350–1650 m.

Potentilla L.

Potentilla anserina L., Sp. Pl. 495. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–2300 m.

Potentilla argentea L., Sp. Pl. 1: 497. 1753.

Distribution: Jammu & Kashmir.

- Potentilla argyrophylla** Wall. ex Lehm., Nov. Stirp. Pug. 3: 36. 1831.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. (Plate 234a)
- Potentilla articulata** Franch., Pl. Delavay. 3: 210–211. 1890.
Distribution: Jammu & Kashmir.
- Potentilla articulata** Franch. var. **latipetiolata** (C.E.C.Fisch.) T.T.Yu & C.L.Li, Fl. Reipubl. Popularis Sin. 37: 259. 1985. *P. latipetiolata* C.E.C.Fisch.
Distribution: Sikkim; 2500–3200 m.
- Potentilla atosanguinea** G. Lodd. ex D.Don, Bot. Cab. 8: pl. 786. 1823.
Distribution: Uttarakhand; 5600 m. (Plate 235b)
- Potentilla bannehalensis** Cambess., Voyage dans l'Inde: 1835. 52. t.64. 1844.
Distribution: Jammu & Kashmir.
- Potentilla biflora** Willd. ex Schtdl., Mag. Ges. Naturf. Berlin 7: 197. 1816.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.
- Potentilla bifurca** L. var. **humilior** Rupr. & Ost.–Sack., Sert. Tianschan. 45. 1868.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.
- Potentilla cathaclines** Lehm., Nov. Strip. Pug. 3: 37. 1831.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.
- Potentilla clarkei** Hook.f., Fl. Brit. India 2(5): 351. 1878.
Distribution: Jammu & Kashmir.
- Potentilla collettiana** Aitch. & Hemsl., J. Linn. Soc., Bot. 18: 53. 1881.
Distribution: Jammu & Kashmir.
- Potentilla coriandrifolia** D.Don, Prodr. Fl. Nep. 232. 1825.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2000–3500 m. (Plate 233b)
- Potentilla crantzii** (Crantz) Beck ex Fritsch, Excursionsfl. Oesterreich 295. 1897.
Fragaria crantzii Crantz
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.
- Potentilla cuneifolia** Bertol., Misc. Bot. 24: 15, t. 2. 1863.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.
- Potentilla curviseta** Hook.f., Fl. Brit. India 2: 358. 1878.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.
- Potentilla desertorum** Bunge, Fl. Alt. 2: 257. 1830.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.

Potentilla eriocarpa Wall. ex Lehm., Nov. Strip. Pug. 3: 35. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Potentilla eriocarpa Wall. ex Lehm. var. **tsarongensis** W.E.Evans, Notes Roy. Bot. Gard. Edinburgh 13(63–64): 178. 1921.

Distribution: Sikkim, Uttarakhand; 2800–5000 m.

Potentilla fruticosa L. var. **arbuscula** (D.Don) Maxim., Mélanges Biol. Bull. Phys.–Math. Acad. Imp. Sci. Saint–Pétersbourg 9: 158. 1873. *P. arbuscula* D.Don

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Potentilla fruticosa L. var. **pumila** Hook.f., Fl. Brit. India 2(5): 348. 1878.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Potentilla fruticosa L. var. **rigida** (Wall. ex Lehm.) Wolff, Biblioth. Bot. 16: 57. 1908. *P. rigida* Wall. ex Lehm.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 1800–2500 m.

Potentilla gerardiana Lindl. ex Lehm., Nov. Stirp. Pug 3: 23. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.

Potentilla griffithii Hook.f., Fl. Brit. India 2(5): 351. 1878.

Distribution: Sikkim, Uttarakhand; 5000–5200 m.

Potentilla indica (Andrews) Th.Wolf, Syn. Mitteleur. Fl. 6(1): 661. 1904. *Fragaria indica* Andrews

Distribution: Uttarakhand; 2500 m.

Potentilla kashmirica Hook.f., Fl. Brit. India 2(5): 355. 1878.

Distribution: Jammu & Kashmir.

Potentilla khasiana C.B.Clarke ex B.K.Dixit & Panigrahi, Bull. Surv. India 21: 136. 1979.

Distribution: Arunachal Pradesh; 1600–2200 m.

Potentilla kleiniana Wight & Arn., Prodr. Fl. Ind. Orient. 1: 300. 1834.

Distribution: Himachal Pradesh; 2000–2500 m.

Potentilla leschenaultiana Ser., DC. Prodr. 2: 584. 1825.

Distribution: Himachal Pradesh, Uttarakhand.

Potentilla leuconota D.Don, Prodr. Fl. Nep. 230. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2000–3500 m.

Potentilla lineata Trevir ex Reich., Ic. Bot. Cent. 17: t. 8. 1824.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2500–4200 m.

(Plate 233a)

Potentilla lineata Trev. var. **intermedia** Dixit & Panigrahi, Proc. 4th Ann. Conf. Orissa Bot. Soc. 25. 1979.

Distribution: Uttarakhand.

Potentilla microphylla D.Don, Prodr. Fl. Nep. 231. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2500–4500 m. (Plate 234b)

Potentilla microphylla D.Don var. **achilleifolia** Hook.f., Fl. Brit. India 2(5): 353. 1878.

Distribution: Sikkim, Uttarakhand.

Potentilla microphylla D.Don var. **latifolia** Wall. ex Lehm., Novarum et minus cognitarum stirpium pugillus: 1828. 19. 1831.

Distribution: Sikkim, Uttarakhand.

Potentilla monanthes Lindl., Numer. List n. 1025. 1829.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4500 m.

Potentilla monanthes Wall. ex Lehm var. **sibthorpioides** Hook.f., Fl. Brit. India 2:358. 1878.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 3000–4500 m.

Potentilla mooniana Wight, Icon. Pl. Ind. Orient. i. t. 233.

Distribution: Sikkim.

Potentilla multifida L., Sp. Pl. 496. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–4500 m.

Potentilla nepalensis Hook., Exot. Fl. t.88. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. (Plate 235a)

Potentilla nivea L., Sp. Pl. 1: 499. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Potentilla parvifolia Fisch. ex Lehm., Nov. Stirp. Pug. 3: 6. 1831.

Distribution: Jammu & Kashmir.

Potentilla peduncularis D.Don, Prodr. Fl. Nep. 230. 1825.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m.

Potentilla polyphylla Wall. ex Lehm., Nov. Stirp. Pug. 3: 13. 1831.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m. (Plate 236a)

Potentilla pteropoda Royle, Ill. Bot. Himal. Mts. 207. t. 40. f. 2.

Distribution: Jammu & Kashmir.

Potentilla reptans L., Sp. Pl. 1: 499. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Potentilla rigida Wall. ex Lehm., Nov. Stirp. Pug. 3: 3. 1831.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–4500 m.

Potentilla saundersiana Royle, Ill. Bot. Himal. Mts. 207. t. 41. f. 1. 1835.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1800–3000 m.

Potentilla saundersiana Royle var. **jacquemontii** Franch., Pl. Delavay. 3: 215. 1890.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 4000–4900 m.

Potentilla sericea L., Sp. Pl. 1: 495. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–4500 m.

Potentilla sericea L. var. **polyschista** (Boiss. & Hohen.) Lehm., Nov. Actorum Acad. Caes. Leop. Carol. Nat. Cur. 34. 1856. *P. polyschista* Boiss. & Hohen.

Distribution: Uttarakhand.

Potentilla sericophylla R. Parker, Bull. Misc. Inform. Kew 1921(5): 217.

Distribution: Jammu & Kashmir.

Potentilla spodioclora Soják, Folia Geobot. Phytotax. Bohemoslov. i. 348. 1966.

Distribution: Sikkim; 3000–4200 m.

Potentilla sundaica (Blume) Kuntze, Revis. Gen. Pl. 1: 219. 1891. *Fragaria sundaica* Blume

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Potentilla supina L., Sp. Pl. 497. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Potentilla thomsonii Hand.-Mazz., Acta. Hort. Gotobarg. 13: 315. 1939.

Distribution: Himachal Pradesh; 2000–3000 m.

Prinsepia Royle

Prinsepia utilis Royle, Ill. Bot. Himal. Mts. 206.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 236c)**

Prunus L.

Prunus arborea (Blume) Kalkman var. **montana** (Hook.f.) Kalkman, Blumea 13: 99. 1965. *Pygeum montana* Hook.f.

Distribution: Arunachal Pradesh; 1500–2500 m.

Prunus armeniaca L., Sp. Pl. 1: 474. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Prunus avium (L.) L., Flora Svecica 165. 1755. *P. cerasus* L. var. *avium* L.

Distribution: Himachal Pradesh; 2100–3000 m.

Prunus bokhariensis Royle ex C.K. Schneid., Repert. Spec. Nov. Regni Veg. 1: 51. 1905.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Prunus bracteopadus Koehne, Repert. Spec. Nov. Regni Veg. 9: 33. 1910.

Distribution: Sikkim.

Prunus campanulata Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg xxix. 103. 1883.

Distribution: Uttarakhand; 2000 m.

Prunus carmesina H.Hara, Journ. Jap. Bot. xliii. 46, sine descr. lat. 1968.

Distribution: Sikkim, Uttarakhand; 1900–2600 m.

Prunus cerasifera Ehrh., Gartenkalender 4: 192–193. 1784.

Distribution: Himachal Pradesh, Uttarakhand; 2100–3000 m.

Prunus cerasifera Ehrh. subsp. **pissardii** (Carrière) Dostál, Folia Mus. Rerum Nat. Bohemiae Occid., Bot. 21: 7. 1984. *P. pissardii* Carrière

Distribution: Uttarakhand.

Prunus cerasoides D.Don., Prodr. Fl. Nep. 239. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–3100 m. **(Plate 236b)**

Prunus cerasus L., Sp. Pl. 474. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3700 m.

Prunus ceylanica (Wight) Miq., Fl. Ned. Ind. i. 366. *Polydontia ceylanica* Wight.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 500–1200 m.

Prunus cornuta (Wall. ex Royle) Steud., Nom. Bot. ed. 2, 2: 403. 1841. *Cerasus cornuta* Wall. ex Royle.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 237a)**

Prunus dasycarpa Ehrh., Beitr. Naturk. 6: 90. 1791.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Prunus domestica L., Sp. Pl. 475. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh, Uttarakhand; 2000–3000 m.

Prunus domestica L. subsp. **insititia** (L.) C.K.Schneid., Ill. Handb. Laubholz. 1(5): 630. 1906. *P. insititia* L.

Distribution: Jammu & Kashmir, Uttarakhand.

Prunus dulcis (Mill.) D.A.Webb., Feddes Repert. 74: 24. 1967. *Amygdalus dulcis* Mill.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 750–2400 m.

Prunus glauciphylla Ghora & Panigrahi, J. Econ. Taxon. Bot. 7(1): 228. 1985.

Distribution: Uttarakhand.

Prunus jacquemontii Hook.f., Fl. Brit. India 2: 314. 1878.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Prunus jenkinsii Hook.f. & Thomson, Fl. Brit. India 2(5): 317. 1878.

Distribution: Sikkim.

Prunus napaulensis (Ser.) Steud., Nom. Bot. ed. 2: 2: 403. 1841. *Cerasus napaulensis* Ser.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–1800 m.

Prunus persica (L.) Batsch, Beytr. Entw. Gewächreich 30. 1801. *Amygdalus persica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 800–1500 m.

Prunus phaeosticta (Hance) Maxim., Bull. Ac. Imp. Sc. St. Peters-burgh 29: 110. 1883. *Pygeum phaeostictum* Hance

Distribution: Arunachal Pradesh; 1500–2500 m.

Prunus prostrata Labill., Icon. Pl. Syr. 1: 15. 1791.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.

Prunus pseudocerasus Lindl., Trans. Hort. Soc. London 6: 90. 1826.

Distribution: Arunachal Pradesh, Sikkim.

Prunus pygeoides Koehne, Bot. Jahrb. Syst. 52(4-5): 297. 1915.

Distribution: Uttarakhand.

Prunus rufa Steud. ex Hook.f., Fl. Brit. India 2: 314. 1878.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Prunus rufa Steud. ex Hook.f. var. **imanishii** (Kitam.) Ghora & Panigrahi, Proceedings of the annual conference of the Orissa botanical society; 1976: 31. 1981. *P. imanishii* Kitam.

Distribution: Sikkim, West Bengal (Darjeeling).

Prunus salicina Lindl., Trans. Hort. Soc. London 7: 239. 1829.

Distribution: Arunachal Pradesh, Uttarakhand; 1500–2000 m.

Prunus serotina Ehrh., Gartenkalender 3: 285. 1784.

Distribution: Uttarakhand.

Prunus serrulata Lindl., Trans. Hort. Soc. London 7: 238. 1830.

Distribution: Sikkim.

Prunus tomentosa Thunb., Syst. Veg., ed. 14. 464. 1784.

Distribution: Jammu & Kashmir.

Prunus trichantha Koehne, Pl. Wilson. 1(2): 254. 1912.

Distribution: Sikkim.

Prunus undulata Buch.-Ham. ex D. Don, Prodr. Fl. Nep. 239. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2500 m.

Prunus venosa Koehne, Pl. Wilson. 1(1): 60. 1911.

Distribution: Sikkim, Uttarakhand; 1800–2500 m.

Pyracantha M. Roem.

Pyracantha crenulata (Roxb.) M.Roem., Fam. Nat. Reg. Syn. 3: 220. 1847.
Crataegus crenulata Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Pyrus L.

Pyrus communis L., Sp. Pl. 479. 1753.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2000–3000 m.

Pyrus expansa (Koehne) Bennet, Ind. J. For. 4:68. 1981. *Sorbus expansa* Koehne

Distribution: Arunachal Pradesh; 1800–2500 m.

Pyrus garhwalensis (G.Klotz) M.F.Fay & Christenh., Global Fl. 4: 104. 2018.

Cotoneaster garhwalensis G.Klotz

Distribution: Uttarakhand.

Pyrus griffithii Hook.f., Fl. Brit. India 2(5): 377. 1878.

Distribution: Arunachal Pradesh; 1600–1800 m.

Pyrus lindleyi Rehder, Proc. Am. Acad. Arts Sci. 50: 230. 1915.

Distribution: Himachal Pradesh; 2000–3000 m.

Pyrus pashia Buch.-Ham. ex D.Don, Prodr. Fl. Nep. 236. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Pyrus pashia Buch.-Ham. ex D.Don var. **kumaoni** (Decne.) Stapf. Bot. Mag. 135: pl. 8256. 1909. *P. kumaoni* Decne.

Distribution: Uttarakhand; 2000 m.

Pyrus polycarpa Hook.f., Fl. Brit. India 2: 378. 1878.

Distribution: Arunachal Pradesh; 1500–1800 m.

Pyrus rockii (Rehder) M.F.Fay & Christenh. Global Fl. 4: 118. 2018. *Malus rockii* Rehder

Distribution: Uttarakhand.

Pyrus wenzigiana (Schneid.) Bennet, Ind. J. For. 4: 68. 1981. *Sorbus ursina* S.Schauer. var. *wenzigiana* Schneid

Distribution: Arunachal Pradesh; 3000–4000 m.

Rosa L.

Rosa alba L., Sp. Pl. 492. 1753.

Distribution: Himachal Pradesh.

Rosa banksiae R.Br., Hortus Kew. 3: 258. 1811.

Distribution: Uttarakhand; 1700 m.

Rosa beggeriana Schrenk ex Fisch. & C.A.Mey., Enum. Pl. Nov. 1: 73. 1841.

Distribution: Uttarakhand; 3000 m.

- Rosa bracteata** J.C. Wendl., Bot. Beob. 50. 1798.
Distribution: Uttarakhand.
- Rosa cathayensis** (Rehder & E.H. Wilson) L.H. Bailey, Gentes Herbarum 1(1): 29–30. 1920. *Rosa multiflora* var. *cathayensis* Rehder & E.H. Wilson
Distribution: Uttarakhand.
- Rosa clinophylla** Redout & Thory, Roses 1: 43. 1817.
Distribution: Sikkim, Uttarakhand; 300–1000 m.
- Rosa corymbifera** Borkh., Vers. Forst. Bot. Besch. 319. 1790.
Distribution: Himachal Pradesh, Jammu & Kashmir.
- Rosa x damascena** Mill., Gard. Dict. ed. 8. n. 15. 1768.
Distribution: Himachal Pradesh; 2000–3000 m.
- Rosa ecae** Aitch., J. Linn. Soc., Bot. 18: 54. 1880.
Distribution: Uttarakhand; 3000 m.
- Rosa eglanteria** Mill., Gard. Dict., ed. 8. n. 4. 1768.
Distribution: Jammu & Kashmir, Uttarakhand; 2300 m.
- Rosa foetida** Herrm., Diss. Bot. Med. Rosa 18. 1762.
Distribution: Himachal Pradesh; 2000–3000 m.
- Rosa hirsuta** Ghora & Panigrahi, Bull. Bot. Surv. India 28(1–4): 177. 1988.
Distribution: Uttarakhand; 3800 m.
- Rosa indica** L., Sp. Pl. 492. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1400–1800 m.
- Rosa leschenaultiana** (Thory) Wight & Arn., Prodr. Fl. Ind. Orient. 1: 301. 1834.
R. sempervirens L. var. *leschenaultiana* Thory
Distribution: Arunachal Pradesh; 1500–2000 m.
- Rosa macrophylla** Lindl., Ros. Monogr. 35. t. 6. 1820.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 238)**
- Rosa macrophylla** Lindl. var. **hookeriana** Hook.f., Fl. Brit. India 2: 366. 1878.
Distribution: Himachal Pradesh, Uttarakhand; 2000–3000 m.
- Rosa macrophylla** Lindl. var. **minor** Lindl., Wall., Pl. Asist. Rar. 2(5): 19. 1830.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Rosa moschata** Herrm., De Rosa 15. 1762.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1600–2500 m.
- Rosa roxburghii** Tratt., Rosac. Monogr. 2: 233. 1823.
Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.
- Rosa multiflora** Thunb., Fl. Jap. 214. 1784.
Distribution: Himachal Pradesh; 2000–3500 m.

Rosa multiflora Thunb. var. **carnea** Thory Roses 2: 67. 1821.

Distribution: Uttarakhand.

Rosa nanothamnus Boulenger, Bull. Jard. Bot. État Bruxelles 13: 170. 206. 1935.

Distribution: Jammu & Kashmir.

Rosa omeiensis Rolfe, Bot. Mag. 138: t. 8471. 1912.

Distribution: Arunachal Pradesh; 2000–4000 m.

Rosa rubiginosa L., Mant. Pl. 564. 1771.

Distribution: Himachal Pradesh; 2000–3500 m.

Rosa sericea Lindl., Monogr. Rosa 105. t.12. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m. **(Plate 239)**

Rosa sericea Lindl. f. **glandulosa** T.T.Yu & T.C.Ku, Acta Phytotax. Sin. 18(4): 503. 1980.

Distribution: Uttarakhand; 3500 m.

Rosa sericea Lindl. subsp. **omeiensis** (Rolfe) A.V. Roberts, Bot. J. Linn. Soc. 74(4): 327. *Rubus omeiensis* Rolfe

Distribution: Sikkim.

Rosa sinica L., Syst. Veg., ed. 13. 394. 1774.

Distribution: Uttarakhand; 2000 m.

Rosa webbiana Wall ex Royle, Ill. Bot. Himal. Mts. 208. t.42. f. 2. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m. **(Plate 237b)**

Rubus L.

Rubus acuminatus Sm., Cyclop. 30: n. 43. 1819.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2000 m.

Rubus alceifolius Poir., Lam. Encycl. 6: 247. 1804.

Distribution: Arunachal Pradesh, Uttarakhand; 1500–2000 m.

Rubus almorensis Dunn, Bull. Misc. Inform. Kew 1921(8): 310.

Distribution: Uttarakhand.

Rubus alexeterius Focke, Notes Roy. Bot. Gard. Edinburgh 5: 75. 1911.

Distribution: Sikkim.

Rubus antennifer Hook.f., Fl. Brit. India 2(5): 337. 1878.

Distribution: Jammu & Kashmir.

Rubus assamensis Focke, Abh. Naturwiss. Verenie Bremen. 4: 197. 1874.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–2000 m.

Rubus biflorus Buch.-Ham. ex Sm., Cyclops. 30: n.9. 1819.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim,

Uttarakhand; 3000–3500 m.

Rubus birmanicus Hook.f., Fl. Brit. India 2: 331. 1878.

Distribution: Arunachal Pradesh; 1000–1500 m.

Rubus burkillii Rolfe, Bull. Misc. Inform. Kew 1920(3): 109.

Distribution: Arunachal Pradesh; 900–1500 m.

Rubus calycinus Wall. ex D. Don, Prodr. Fl. Nep. 235. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2000 m.

Rubus calycinoides Kuntze, Meth. Sp.-Beschr. Rubus 67. 78. 1879.

Distribution: Sikkim, West Bengal (Darjeeling); 780–2100 m.

Rubus chambica Rolfe, Bull. Misc. Inform. Kew 1920(4): 132.

Distribution: Himachal Pradesh; 1500–2500 m.

Rubus cooperi D.G. Long, Notes Roy. Bot. Gard. Edinburgh 44(2): 259. 1987.

Distribution: Arunachal Pradesh; 2040 m.

Rubus duthieanus Balakr., J. Bombay Nat. Hist. Soc. 67: 58. 1970.

Distribution: Arunachal Pradesh, Uttarakhand; 2400 m.

Rubus efferatus Craib, Fl. Siam. 1(4): 570. 1931.

Distribution: Sikkim; 1200–1600 m.

Rubus ellipticus Sm., Cyclop. 30. n.16. 1819.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 237c)**

Rubus fairholmianus Gardner, Calcutta J. Nat. Hist. 8: 6. 1847.

Distribution: Arunachal Pradesh; 1500–1800 m.

Rubus fockeanus Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 44(3): 206. 1876.

Distribution: Sikkim; 2700–3500 m.

Rubus fragarioides Bertol., Miscellanea botanica; 1842. 16, t.5. 1862.

Distribution: Sikkim; 3050–4260 m.

Rubus ghanakantae Rolla Rao & Joseph, Bull. Bot. Surv. India 12(1–4): 261. 1970.

Distribution: Arunachal Pradesh; 2000–2500 m.

Rubus glandulifer N.P. Balakr., J. Bombay Nat. Hist. Soc. lxxvii. 58. 1970.

Distribution: Uttarakhand; 2600 m.

Rubus griffithii Hook.f., Fl. Brit. India 2(5): 327. 1878.

Distribution: Sikkim, West Bengal (Darjeeling).

Rubus hamiltonii Hook.f., Fl. Brit. India 2(5): 328. 1878.

Distribution: Arunachal Pradesh, Sikkim; 1500–1800 m.

Rubus haridasanii Chand. Gupta & S. S. Dash, Phytotaxa 289(2): 176. 2016.

Distribution: Arunachal Pradesh; 1875 m.

Rubus hexagynus Roxb., Fl. Ind. 2:516. 1832.

Distribution: Arunachal Pradesh; 1600–2000 m.

Rubus inopertus (Focke) Focke, Biblioth. Bot. Heft. 17(2): 182. 1911. *R. niveus* Thunb. subsp. *inopertus* Focke

Distribution: Sikkim; 1200–3000 m.

Rubus insignis Hook.f., Fl. Brit. India 2(5): 329. 1878.

Distribution: Arunachal Pradesh; 300–800 m.

Rubus irritans Focke, Bibl. Bot. Heft 72: 192. 1910.

Distribution: Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.

Rubus kumaonensis N.P.Balakr., J. Bombay Nat. Hist. Soc. lxxvii. 58. 1970.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2300–2700 m.

Rubus kurzii N.P.Balakr., J. Bombay Nat. Hist. Soc. 67: 58. 1970.

Distribution: Arunachal Pradesh; 1500–2500 m.

Rubus lasiocarpus Sm. var. **furfuraceus** Hook.f., Fl. Brit. India 2: 339. 1878.

Distribution: Arunachal Pradesh; 1500–2500 m.

Rubus lineatus Reinw. ex Blume, Bijdr. Fl. Ned. Ind. 17: 1108.

Distribution: Arunachal Pradesh, Sikkim; 1000–1500 m.

(Plate 240a)

Rubus lucens Focke, Bremen. Abh. Nat. Ver. 4: 199. 1874.

Distribution: Arunachal Pradesh; 500–1000 m.

(Plate 240b)

Rubus macilentus Camb. ex Jacq., Voy. Bot. 4 :49. t.60. 1835.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh, Sikkim, Uttarakhand; 2000–3000 m.

(Plate 242a)

Rubus mesogaeus Focke, Bot. Jahrb. Syst. 29(3–4): 399. 1900.

Distribution: Arunachal Pradesh, Sikkim.; 1500–2000 m.

Rubus nepalensis (Hook.f.) Kuntze, Meth. Sp.–Besch. Rubus 125. 1879. *R. nutans* Wall. ex G. Don var. *nepalensis* Hook.f.

Distribution: Sikkim, Uttarakhand.

Rubus niveus Thunb., Disseit. de Rubo 9. f. 3. 1813.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

(Plate 241a)

Rubus paniculatus Sm., Rees, Cyclop. 30. Rubus no. 41. 1819.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 200–600 m.

(Plate 241b)

Rubus pectinarius Focke, Bibl. Bot. 72: 21. 1910.

Distribution: Arunachal Pradesh; 2000–3500 m.

Rubus pectinarioides Hara, J. Jap. Bot. 47(4): 111. 1972.

Distribution: Sikkim; 2500–3700 m.

Rubus pedunculatus D.Don, Prodr. Fl. Nepal. 234. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–3700 m.

Rubus pentagonus Wall. ex Focke, Bibl. Bot. 17: 145. 1911.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand ; 2000–3000 m.

Rubus phengodes Focke, Biblioth. Bot. 72. 48. 1909.

Distribution: Sikkim; 1800–3000 m.

Rubus polyodontus Hand.-Mazz., Symb. Sin. Pt. vii. 484. 1933.

Distribution: Arunachal Pradesh; 2000–3000 m.

Rubus pungens Cambess., Voy. Inde Bot. 4: 48. t. 59. 1844.

Distribution: Jammu & Kashmir, Sikkim; 2400–3000 m.

Rubus quinquefoliolatus T.T. Yu & L.T. Lu, Acta Phytotax. Sin. 20(3): 306. 1982.

Distribution: Arunachal Pradesh; 2300 m.

Rubus rosifolius Sm., Pl. Ic. Ined. 3: t. 60. 1791.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 600–1100 m. **(Plate 242b)**

Rubus rugosus Sm., Cycl. 30: 2: 566. 1825.

Distribution: Arunachal Pradesh, Sikkim; 1900 m.

Rubus salceifolius Poir., Encycl. Meth. Bot. 6: 247. 1804.

Distribution: Arunachal Pradesh; 1200–2000 m.

Rubus saxatilis L., Sp. Pl. 1: 494. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000– 3000 m.

Rubus senchalensis H.Hara, Fl. E. Himalaya 2nd Rep.: 60. 1971.

Distribution : Sikkim.

Rubus sengorensis Grierson & D.G.Long, Notes Roy. Bot. Gard. Edinburgh 40(1): 122. 1982.

Distribution: Arunachal Pradesh.

Rubus sikkimensis Hook.f., Fl. Brit. India 2(5): 336. 1878.

Distribution: Sikkim; 2500–4000 m.

Rubus splendidissimus H.Hara, J. Jap. Bot. 40. 327. 1965. *R. andersoni* sensu Hook.f.

Distribution: Arunachal Pradesh, Sikkim; 2400–2900 m.

Rubus sumatranus Miq., Fl. Ind. Bat. Suppl. 307. 1861.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1400–3000 m.

(Plate 243a)

Rubus thomsonii Focke, Abh. Naturwiss. Vereins Bremen 4: 198. 1874.

Distribution: Sikkim; 2700–3400 m.

Rubus tiliaceus Sm. Cycl. 30. n. 35.

Distribution: Sikkim, West Bengal (Darjeeling); 2700–3400 m.

Rubus treutleri Hook.f., Fl. Brit. India 2(5): 331. 1878.

Distribution: Sikkim; 2700–3400 m.

Rubus ulmifolius Schott, Oken, Isis. fasc. 5: 821. 1818.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Rubus wardii Merr., Brittonia iv. 84. 1941.

Distribution: Arunachal Pradesh, Sikkim; 2000–3400 m.

Sanguisorba L.

Sanguisorba diandra (Hook.f.) Nordborg, Op. Bot. xi. No. 2, 60. 1966. *Poterium diandrum* Hook.f.

Distribution: Sikkim, Uttarakhand; 3700–4100 m.

Sanguisorba filiformis (Hook.f.) Hand.-Mazz., Symb. Sin. Pt. 8. 524. 1933.

Poterium filiforme Hook.f.

Distribution: Sikkim; 3700–4100 m.

Sanguisorba minor Scop., Fl. Carniol., ed. 2. 1: 110. 1771.

Distribution: Jammu & Kashmir and Uttarakhand; 2500 m.

Sibbaldia L.

Sibbaldia axilliflora (Hook.f.) Chatterjee, Notes Roy. Bot. Gard. Edinburgh 19: 325. 1938. *Potentilla axilliflora* Hook.f.

Distribution: Uttarakhand; 4500 m.

Sibbaldia compacta (W.W.Sm. & Cave) Dikshit & Panigrahi, Indian J. Forest. 3(1): 35. 1980. *Potentilla sericea* L. var. *compacta* W.W.Sm. & Cave

Distribution: Sikkim; 4200–4600 m.

Sibbaldia cuneata Hornem. ex Kunze., Linnaea 20: 59. 1847.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir; 2500–4500 m.

Sibbaldia micropetala (D.Don) Hand.-Mazz., Karsten. et Schenck. Veg. bild. 22(8): 6. 1832. *Potentilla micropetala* D.Don.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Sibbaldia parviflora Willd., Ges. Naturf. Fr. Berlin Neue Schrifften 2: 125. t. 5. f. 4. 1799.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Sibbaldia perpusilla (Hook.f.) Chatterjee, Notes Roy. Bot. Gard. Edinburgh 19: 326. 1938. *Potentilla perpusilla* Hook.f.

Distribution: Sikkim, Uttarakhand; 5000 m.

Sibbaldia perpusilloides (W.W.Sm.) Hand.-Mazz., Symb. Sin. Pt. 7. 520. 1933. *P. perpusilloides* W.W.Sm.

Distribution: Sikkim; 3000–4200 m.

Sibbaldia purpurea Royle, Ill. Bot. Himal. Mts. 208. t. 40. f. 3. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Sibbaldia purpurea Royle var. **pentaphylla** (J.Krause) Dikshit, Bull. Bot. Soc. Bengal 38(1–2): 39. 1987. *S. pentaphylla* J. Krause

Distribution: Sikkim; 4600–4900 m.

Sibbaldia sikkimensis (Prain) Chatterjee, Notes Roy. Bot. Gard. Edinburgh 19: 327. 1938. *Potentilla sikkimensis* Prain

Distribution: Sikkim; 3000–4200 m.

Sibbaldia tetrandra Bunge, Verz. Altai. Pfl. 17, 25. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Sibbaldia trullifolia (Hook.f) Chatterjee, Notes Roy. Bot. Gard. Edinburgh 19: 327. 1938. *Potentilla trullifolia* Hook.f.

Distribution: Sikkim; 3000–4200 m.

Sibbaldianthe Juz.

Sibbaldianthe bifurca (L.) Kurtto & T.Erikss., Ann. Bot. Fenn. 40(2): 139. 2003. *Potentilla bifurca* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Sorbaria (Ser.) A.Braun

Sorbaria tomentosa (Lindl.) Rehder, Journ. Arn. Arb. 19: 75. 1938. *Schizonotus tomentosa* Lindl.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.
(Plate 243b)

Sorbus L.

Sorbus arachnoidea Koehne., Repert. Spec. Nov. Regni Veg. 10: 514. 1912.

Distribution: Sikkim; 2900–4400 m.

Sorbus aucuparia L., Sp. Pl. 1: 477. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.
(Plate 245a)

Sorbus cashmiriana Hedl., Kongl. Svenska Vetensk.–Akad. Handl. xxxv. No. 1. 35. 1901.

Distribution: Jammu & Kashmir.

Sorbus cuspidata (Spach) Hedlund, Svenska Vet. Akad. Handl. 3: 89. 1901. *Crataegus cuspidata* Spach.

Distribution: Arunachal Pradesh, Uttarakhand; 3000–4000 m.

Sorbus foliolosa (Wall.) Spach, Hist. Nat. Veg. 2: 96. 1834. *Pyrus foliolosa* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1500–2500 m.
(Plate 245b)

Sorbus griffithii (Decne.) Rehder, Pl. Wilson. 2(2): 277. 1915. *Micromeles griffithsii* Decne.

Distribution: Sikkim; 2700–2800 m.

Sorbus hedlundii C.K.Schneid., Ill. Handb. Laubholzk. i. 685. 1906.

Distribution: Sikkim; 2700–2800 m.

Sorbus himalaica Gabrieljan, Bot. Zhurn 56(5): 658. 1971.

Distribution: Sikkim; 2700–2800 m.

Sorbus insignis (Hook.f.) Hedl., Kongl. Svenska Vet. Akad. Handl. 35: 89. 1901. *Pyrus insignis* Hook.f.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Sorbus kurzii (Prain) C.K.Schneid., Bull. Herb. Ser. II, vi. 315. 1906. *Pyrus Kurzii* Prain

Distribution: Sikkim; 2700–2800 m.

Sorbus lanata (D.Don) Schauer, Ubers. Ver. and Schles. Ges. Vatarl. Kultur 1847: 292. 1848. *Pyrus lanata* D.Don

Distribution: Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.

Sorbus microphylla Wenzig, Linnaea 38: 76. 1873.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 3500–4500 m. (Plate 246)

Sorbus oligodonta (Cardot) Hand.-Mazz., Vegetationsbilder xxii. Heft 8, p. 8. 1932. *Pyrus ligodonta* Cardot

Distribution: Sikkim; 2700–2800 m.

Sorbus prattii Koehne, Pl. Wilson. 1(3): 468. 1913.

Distribution: Sikkim; 2700–2800 m.

Sorbus rhamnoides (Decne.) Rehder, Pl. Wilson. 2(2): 278. 1915. *Micromeles rhamnoides* Decne.

Distribution: Sikkim; 2100–2700 m.

Sorbus rufopilosa C.K.Schneid., Bull. Herb. Boissier Ser. II. vi. 317. 1906.

Distribution: Sikkim; 3000–3600 m.

Sorbus thibetica (Cardot) Hand.-Mazz., Symb. Sin. Pt. vii. 467. 1933. *Pyrus thibetica* Cardot

Distribution: Sikkim; 2700–3400 m.

Sorbus thomsonii (King ex Hook.f.) Rehder, Pl. Wilson. 2(2): 277. 1915. *Pyrus thomsonii* King ex Hook.f.

Distribution: Sikkim; 2400–3100 m.

Sorbus tianshanica Rupr., Mem. Acad. St. Petersburg. Ser. 7. 14(4): 46. 1869.

Distribution: Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.

Sorbus ursina (Wall. ex. D.Don) S.Schauer, Ubers. Arbeiten Verand. Schles. Ges. Vaterl. Kult. 1847. *Pyrus ursina* Wall. ex. D.Don
Distribution: Arunachal Pradesh, Uttarakhand.

Sorbus vestita (Wall. ex G.Don) S.Schauer, Ubers. Arbeiten Verand. Schles. Ges. Vaterl. Kult. 1847: 292. 1848. *Pyrus vestita* Wall. ex G.Don
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Sorbus wallichii (Hook.f.) Yu, Fl. Reip. Pop. Sin. 36: 329. 1974. *Pyrus wallichii* Hook.f.
Distribution: Arunachal Pradesh, Sikkim; 2000–2500 m.

Spiraea L.

Spiraea affinis R.Parker, Indian Forester 1930, lvi. 105. 107.
Distribution: Jammu & Kashmir.

Spiraea alpina Pall., Fl. Ross. 1(1): 35. 1784.
Distribution: Sikkim; 4600–4900 m.

Spiraea arcuata Hook.f., Fl. Brit. India 2: 325. 1878.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2500–4000 m. **(Plate 244a)**

Spiraea arunachalensis Panigrahi & Purohit, Bull. Bot. Surv. India 26 (1–2): 83. 1985.
Distribution: Arunachal Pradesh; 1500–2500 m.

Spiraea bella Sims, Bot. Mag. 59: t. 2426. 1823.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 244b)**

Spiraea bella Sims var. **pubicarpa** T.T. Yu & L.T.Lu, Acta Phytotax. Sin. 18(4): 490. 1980.
Distribution: Jammu & Kashmir, Uttarakhand.

Spiraea canescens D.Don, Prodr. Fl. Nepal. 227. 1825.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Spiraea cantoniensis Lour., Fl. Cochinch. 322. 1790.
Distribution: Arunachal Pradesh, Uttarakhand; 3000–4000 m.

Spiraea darjeelingensis Panigrahi & K.M.Purohit, Bull. Bot. Surv. India 26(1–2): 83. 1985. Distribution: Sikkim; 2600 m.

Spiraea diversifolia Dunn, Bull. Misc. Inform. Kew 1921(8): 309.
Distribution: Uttarakhand; 4400 m.

Spiraea duthieana Zinserl., Bot. Mater. Gerb. Glavn. Bot. Sada R.S.F.S.R. v. 64. 1924.
Distribution: Uttarakhand; 3050 m.

Spiraea emarginata K.M.Purohit & Panigrahi, Bull. Bot. Surv. India 26(1–2): 88. 1985.

Distribution: Jammu & Kashmir.

Spiraea fastigiata Wall. ex C.K.Schneid., Numer. List n. 708. 1829.

Distribution: Uttarakhand.

Spiraea gracilis Maxim, Act. Hort. Petrop. 6: 200. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3000 m.

Spiraea hemicryptophyta Grierson, Notes Roy. Bot. Gard. Edinburgh 44(2): 262. 1987.

Distribution: Sikkim ; 3350–4250 m.

Spiraea hypericifolia L., Sp. Pl. 1: 489. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Spiraea hypoleuca Dunn, Bull. Misc. Inform. Kew 1921(3): 119.

Distribution: Uttarakhand; 3300 m.

Spiraea japonica L.f., Suppl. Pl. 262. 1782.

Distribution: Arunachal Pradesh; 1500–2500 m.

Spiraea lasiocarpa Kar. & Kir., Bull. Soc. Imp. Naturalistes Moscou. xv. 536. 1842.

Distribution: Jammu & Kashmir.

Spiraea micrantha Hook.f., Fl. Brit. India 2: 325. 1878.

Distribution: Arunachal Pradesh, Sikkim; 2000–3000 m.

Spiraea panchananii Panigrahi & K.M.Purohit, Bull. Bot. Surv. India 26(1–2): 80. 1985.

Distribution: Uttarakhand; 2400 m.

Spiraea panigrahiana K.M.Purohit, J. Econ. Taxon. Bot. 6(1): 205. 1985.

Distribution: Uttarakhand; 1900 m.

Spiraea parkeri Panigrahi & K.M.Purohit, Fam. Rosac. in India 1: 122. 1991.

Distribution: Uttarakhand; 1950 m.

Spiraea nayarii K.M.Purohit & Panigrahi, Bull. Bot. Surv. India 26(1–2): 78. 1985.

Distribution: Sikkim; 3650 m.

Spiraea raizadae Panigrahi ex K.M. Purohit, M.R. Sharma & B.K. Gupta, Glimpses Pl. Sci. 39. 1986.

Distribution: Uttarakhand; upto 3246 m.

Spiraea rhamniphylla Panigrahi & K.M.Purohit, Bull. Bot. Surv. India 26(1–2): 76. 1985.

Distribution: Jammu & Kashmir, Uttarakhand.

Spiraea robusta Hand.–Mazz., Symb. Sin. Pt. vii. 453. 1933.

Distribution: Sikkim; 2100–2700 m.

Spiraea subdioica K.M.Purohit & Panigrahi, Bull. Bot. Surv. India 26 (1–2): 86. 1985.

Distribution: Arunachal Pradesh; 2500–2800 m.

Spiraea subrotundifolia Panigrahi & K.M. Purohit, Bull. Bot. Surv. India 26(1–2): 88. 1985.

Distribution: Sikkim; 3300–4300 m.

Spiraea tanguensis K.M.Purohit & Panigrahi, Bull. Bot. Surv. India 26(1–2): 80. 1985.

Distribution: Sikkim; 4000 m.

Spiraea vacciniifolia D.Don, Prodr. Fl. Nep. 227. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1500–2500 m.

Spiraea xizangensis L.T.Lu, Acta Phytotax. Sin. 38(3): 276. 2000.

Distribution: Sikkim; 4600–4900 m.

Spiraea zabeliana Schneid., Bull. Herb. Boissier, Ser. II, 5: 343. 1905.

Distribution: Uttarakhand; 3400–3800 m.

RUBIACEAE

(70 genera; 277 taxa)

Acranthera Arn. ex Meisn.

Acranthera tomentosa R.Br. ex Hook.f., Fl. Brit. India 3: 92. 1880.

Distribution: Arunachal Pradesh.

Aidia Lour.

Aidia cochinchinensis Lour., Fl. Cochinch. 143. 1790.

Distribution: Arunachal Pradesh; 1000–1200 m.

Argostemma Wall.

Argostemma sarmentosum Wall., Fl. Ind. 2: 324. 1824.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarkhand, West Bengal (Darjeeling).

Argostemma verticillatum Wall., Fl. Ind. 2: 325. 1824.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–2100 m.

Asperula L.

Asperula cynanchica L., Sp. Pl. 104. 1753.

Distribution: Uttarakhand.

Asperula oppositifolia Regel & Schmalh subsp. **albidula** Pachom., Opredelitel Rastenii Srednei Azii. 9: 290. 1987.

Distribution: Jammu & Kashmir.

Asperula oppositifolia Regel & Schmalh subsp. **grandiflora** Ehrend., Biol. Skr. 10(3): 131. 1958.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Asperula oppositifolia Regel & Schmalh., Descr. Pl. Nov. 42. 1882. subsp. **oppositifolia**.

Distribution: Jammu & Kashmir.

Asperula oppositifolia Regel & Schmalh. subsp. **pseudocynanchica** Ehrend., Biol. Skr. 10(3): 132. 1958.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3750 m.

Benkara Adans.

Benkara fasciculata (Roxb.) Ridsdale, Reinwardtia 12: 298. 2008. *Podoqueria fasciculata* Roxb.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Benkara griffithii (Hook.f.) Ridsdale, Reinwardtia 12: 299. 2008. *Randia griffithii* Hook.f.

Distribution: Arunachal Pradesh; 200–500 m.

Brachytome Hook.f.

Brachytome wallichii Hook.f., Hooker, Ic. Pl. t. 1088. 1871.

Distribution: Arunachal Pradesh; 600–700 m.

Canthium Lam.

Canthium angustifolium Roxb., Fl. Ind. 2: 169. 1824.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Canthium glabrum Blume, Bijdr. 967. 1826.

Distribution: Arunachal Pradesh; 1500–1800 m.

Catunaregam Wolf

Catunaregam nutans (Roxb.) Tirveng., Nordic J. Bot. 3: 456. 1983. *Posoqueria nutans* Roxb.

Distribution: Arunachal Pradesh; 500–1200 m.

Catunaregam spinosa (Thunb.) Tirveng., Bull. Mus. Natl. Hist. Nat., Ser. 3, Bot. 35: 13. 1978. *Gardenia spinosa* Thunb.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Cephalanthus L.

Cephalanthus tetrandra (Roxb.) Ridsdale & Bakh.f., Blumea 23: 182. 1976. *Nauclea tetrandra* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 600–1200 m.

Ceriscoides (Benth. & Hook.f.) Tirveng.

Ceriscoides campanulata (Roxb.) Tirveng, Bull. Mus. Natl. Hist. Nat., Sér. 3, Bot. 35: 16 1978. *Gardenia campanulata* Roxb.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Ceriscoides turgida (Roxb.) Tirveng., Bull. Mus. Natl. Hist. Nat. Ser.3, Bot. 35: 15. 1978. *Gardenia turgida* Roxb.

Distribution: Sikkim, Uttarakhand.

Chassalia Comm. ex Poir.

Chassalia curviflora (Wall.) Thwaites, Enum. Pl. Zeyl. 150. 1864. *Psychotria curviflora* Wall.

Distribution: Arunachal Pradesh, Sikkim; 500–1500 m.

Chassalia curviflora (Wall.) Thwaites var. **ophioxyloides** (Wall.) Deb & Krishna, Bull. Bot. Surv. India 24(1–4): 222. 1983. *Psychotria ophioxyloides* Wall.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Cinchona Batsch

Cinchona officinalis L., Sp. Pl. 1: 172. 1753.

Distribution: Sikkim, West Bengal (Darjeeling).

Clarkella Hook.f.

Clarkella nana (Edgew.) Hook.f., Fl. Brit. India 3:46. 1880. *Ophiorrhiza nana* Edgew.

Distribution: Uttarakhand.

Coffea L.

Coffea arabica L., Sp. Pl. 172. 1753.

Distribution: Arunachal Pradesh.

Coffea benghalensis B.Heyne ex Schult., Syst. Veg. 5: 200. 1819. *Psilanthus bengalensis* (Heyne ex J. A.Schult) Leroy.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–2000 m. **(Plate 247b)**

Damnacanthus C.F.Gaertn.

Damnacanthus indicus C.F.Gaertn, Suppl. Carp. 18. 1805.

Distribution: Arunachal Pradesh; 1500–2200 m.

Dentella J.R.Forst. & G.Forst.

Dentella repens (L.) J.R.Forst.& G. Forst., Char. Gen. Pl. 26, t. 13. 1776. *Oldenlandia repens* L.

Distribution: Arunachal Pradesh.

Dentella repens (L.) J.R. & G. Forst. var. **serpyllifolia** (Wall. ex Craib) Verdc., Kew Bull. 37: 545. 1983. *D. serpyllifolia* Wall. ex Craib.

Distribution: Uttarakhand.

Galium L.

Galium acutum Edgew., Trans. Linn. Soc. London 20(1): 61. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 600–1200 m.

Galium aparine L., Sp. Pl. 108. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 3950 m.

Galium asperifolium Wall. Fl. Ind.1: 381. 1820. var. **asperifolium**

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 4500 m. **(Plate 249b)**

Galium asperifolium Wall. var. **lasiocarpum** W.C.Chen, Acta Phytotax. Sin. 28: 303. 1990.

Distribution: Uttarakhand.

Galium asperifolium Wall. var. **sikkimense** (Gand.) Cufod., Oesterr. Bot. Z. 89: 241 1940. *G. sikkimense* Gand.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1950–3350 m.

Galium asperuloides Edgew., Trans. Linn. Soc. London 20: 61. 1846.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2200–3200 m.

Galium boreale L., Sp. Pl. 108. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3750 m.

Galium ceratophylloides Hook.f., Fl. Brit. India 3: 209. 1881.

Distribution: Jammu & Kashmir; 3300 m.

Galium confertum Royle ex Hook.f., Fl. Brit. India 3: 206. 1881.

Distribution: Himachal Pradesh.

Galium cryptanthum Hemsl., Icon. Pl. t. 1469. 1884.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Galium duthiei R.Bhattacharjee, Bull. Bot. Surv. India 48: 62. 2006.

Distribution: Himachal Pradesh, Uttarakhand; 3200–5000 m.

Galium elegans Wall., Fl. Ind.1: 382. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–2000 m.

Galium exile Hook.f., Fl. Brit. India 3: 207. 1881.

Distribution: Sikkim, Uttarakhand.

Galium falconeri R.Bhattacharjee, J. Econ. Taxon. Bot. 30: 484. 2006.

Distribution: Himachal Pradesh, Uttarakhand.

Galium hirtiflorum Requierem ex DC., Prodr. 4: 600. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Galium hoffmeisteri (Klotzsch) Ehrend. & Schönb.-Tem. ex R.R.Mill, Edinburgh J. Bot. 53: 95. 1996. *Asperula hoffmeisteri* Klotzsch.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Glaium karakulense Pobed., Fl. URSS 23: 712. 1958.

Distribution: Jammu & Kashmir; 1600–2400 m.

Galium kulluense Anant Kumar, Ranjan & S.C.Srivast., J. Jap. Bot. 88(3): 164. 2013.

Distribution: Himachal Pradesh.

Galium megacyttarion R.R.Mil, Edinburgh J. Bot. 53: 200. 1996.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Galium mahadivense G.Singh, Forest Fl. Srinagar 125. 1976.

Distribution: Jammu & Kashmir.

Galium od oratum (L.) Scop., Fl. Carniol. ed. 2, 1: 105. 1771. *Asperula odorata* L.

Distribution: Jammu & Kashmir.

Galium paradoxum Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg. 19: 281. 1874.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Galium parisiense L., Sp. Pl. 108 1753.

Distribution: Jammu & Kashmir.

Galium pusillosetosum H.Hara, J. Jap. Bot. 51: 134. 1976.

Distribution: Uttarakhand.

Galium satirejifolium Trevir., Mag. Neuesten Entdeck. Gesammten Naturk. Ges. Naturf. Freunde Berlin 7: 146. 1815.

Distribution: Jammu & Kashmir.

Galium serpylloides Royle ex Hook.f., Fl. Brit. India 3: 207. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2200–3200 m.

Galium setaceum Lam., Encycl. 2: 584. 1788.

Distribution: Jammu & Kashmir.

Galium spurium L., Sp. Pl. 106. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, 2500–3000 m.

Galium spurium L. subsp. **ibicinum** (Boiss. & Hausskn.) Ehrend., Pl. Syst. Evol. 127: 305. 1977. *G. ibicinum* Boiss. & Hausskn.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2200–3200 m.

Galium tenuissimum M.Bieb., Fl. Taur.-Caucas. 1: 104. 1808.

Distribution: Jammu & Kashmir.

Galium tricornutum Dandy, *Watsonia* 4 (1):47. 1957.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2200–3200 m.

Galium verum L., *Sp. Pl.* 1:107. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2200–3200 m.

Gardenia J.Ellis

Gardenia jasminoides J.Ellis, *Philos. Trans.* 51(2): 935. 1761. *G. augusta* Merr.

Distribution: Jammu & Kashmir.

Haldina Ridsdale

Haldina cordifolia (Roxb.) Ridsdale, *Blumea* 24. 361. 1978. *Nauclea cordifolia* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 500–1200 m.

Hedyotis L.

Hedyotis costata (Roxb.) Kurz, *J. Asiat. Soc. Bengal* 45(2): 135. 1876. *Spemacoce costata* Roxb.

Distribution: Arunachal Pradesh; 400–1200 m.

Hedyotis griffithii Hook.f., *Fl. Brit. India* 3: 58 1880.

Distribution: Sikkim.

Hedyotis scandens Roxb. ex D.Don, *Prodr. Fl. Nep.* 134. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–2400 m.

(Plate 248a)

Hedyotis tetrandra (Roxb.) Craib, *Fl. Siam.* 2: 49 1932. *Rondeletia tetrandra* Roxb.

Distribution: Arunachal Pradesh; 100–1400 m.

Hedyotis uncinella Hook. & Arn., *Bot. Beech. Voy.* 192. 1833.

Distribution: Arunachal Pradesh, Sikkim.

Hedyotis vestita R.Br. ex G.Don, *Gen. Syst.* 3: 527. 1834.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling).

Himalrandia T.Yamaz.

Himalrandia tetrasperma (Wall. ex Roxb.) Yamazaki, *J. Jap. Bot.* 45: 340. 1970. *Gardenia tetrasperma* Wall. ex Roxb.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarkhand; 1800–2200 m.

Hymenodictyon Wall.

Hymenodictyon flaccidum Wall., *Fl. Ind.* 2: 152. 1824.

Distribution: Sikkim, West Bengal (Darjeeling); 505–2134 m.

Hymenodictyon orixense (Roxb.) Mabb., Taxon 31: 66. 1982. *Cinchona orixense* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling); 1500 m.

Hyptianthera Wight & Arn.

Hyptianthera stricta (Roxb.ex Schult.) Wight & Arn., Prodr. Fl. Pen. Ind. Orient. 399.1834. *Randia stricta* Roxb.ex Schult.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 300–1000 m.

Ixora L.

Ixora acuminata Roxb., Fl. Ind. 1: 383. 1832.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 600 m.

Ixora balakrishnii Deb & Rout., J. Bombay Nat. Hist. Soc. 89: 44. 1992.

Distribution: Sikkim, West Bengal (Darjeeling).

Ixora calycina Thwiates, Enum. Pl. Zeyl. 155. 1859.

Distribution: West Bengal (Darjeeling); upto 2000 m.

Ixora coccinea L., Sp. Pl. 110. 1753.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1200 m.

Ixora cuneifolia Roxb. ex Hook.f., Fl. Ind. 1: 380. 1820.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 500–1200 m.

Ixora javanica (Blume) DC., Prodr. 4: 487 1830. *Pavetta javanica* Blume

Distribution: Sikkim, West Bengal (Darjeeling); 300–1200 m.

Ixora nigricans R.Br. ex Wight & Arn., Prodr. Fl. Ind. 1: 428. 1834.

Distribution: Arunachal Pradesh.

Ixora pavetta Andr., Bot. Repos. 2: t. 78. 1799.

Distribution: Uttarakhand.

Ixora pseudoacuminata Deb & Rout., Kew Bull. 47: 296. 1992.

Distribution: Arunachal Pradesh.

Ixora sessilis Wall. ex G.Don, Gen. Syst. 3: 573. 1834.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 400–1400 m.

Ixora undulata Roxb., Fl. Ind. 1: 385. 1832.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1200 m.

Khasiacuneia Ridsdale

Khasiacuneia oligocephala (Havil.) Ridsdale, Blumea 24: 347. 1978. *Adina oligocephala* Havil.

Distribution: Arunachal Pradesh.

Knoxia L.

Knoxia roxburghii (Spreng.) M.A.Rau, Bull. Bot. Surv. India. 10 (Suppl. 2): 40. 1969. *Spermacoce roxburghii* Spreng.

Distribution: Uttarakhand.

Knoxia sumatrensis (Retz.) DC., Pr.odr. 4: 569. 1830. *Spermacoce sumatrensis* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Kohautia Cham. & Schldl.

Kohautia coccinea Royle, Bot. Himal. Mts. 241. 1839. *Hedyotis coccinea* (Royle) Walp.

Distribution: Jammu & Kashmir, Uttarakhand. **(Plate 249c)**

Kohautia gracilis DC., Prodr. 4: 430. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Kohautia nagporensis (Brace ex Haines) Santapau & Merchant, Bull. Bot. Surv. India 3: 108. 1962. *Oldenlandia nagporensis* Brace ex Haines

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Lasianthus Adans.

Lasianthus attenuatus Jack, Trans. Linn. Soc. London 14: 126. 1823.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1200 m.

Lasianthus biermannii King ex Hook.f., Fl. Brit. India 3: 190. 1880.

Distribution: Arunachal Pradesh, Sikkim; 700–2300 m.

Lasianthus hirsutus (Roxb.) Merr., J. Arnold Arbor. 33(3): 229. 1952. *Triosteum hirsutum* Roxb.

Distribution: Uttarakhand.

Lasianthus hookeri Clarke ex Hook.f., Fl. Brit. India 3: 184. 1880.

Distribution: Arunachal Pradesh.

Lasianthus japonicus Miq., Ann. Mus. Bot. Lugduno–Batavi 3: 110. 1867.

Distribution: Arunachal Pradesh; upto 1620 m.

Lasianthus japonicus Miq. subsp. **longicaudus** (Hook.f.) C.Y.Wu & H.Zhu, Acta. Phytotax. Sin. 32: 80. 1994. *L. longicaudus* Hook.f.

Distribution: Arunachal Pradesh.

Lasianthus lucidus Blume, Bijdr. 997. 1826.

Distribution: Arunachal Pradesh; 300–1000 m.

Lasianthus micranthus Hook.f., Fl. Brit. India 3: 190. 1880.

Distribution: Arunachal Pradesh.

Lasianthus sikkimensis Hook.f., Fl. Brit. India 3: 180. 1880.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Leptodermis Wall.

Leptodermis griffithii Hook.f., Fl. Brit. India 3: 198. 1880.

Distribution: Arunachal Pradesh, Sikkim; 1000–2000 m.

Leptodermis kumaonensis R. Parker, Indian For. 48: 576. 1922.

Distribution: Uttarakhand.

Leptodermis lanceolata Wall., Fl. Ind. 2: 191. 1924.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 800–1200 m. **(Plate 249a)**

Leptodermis ludlowii Springate, Edinburgh J. Bot. 53: 102. 1996.

Distribution: Sikkim.

Leptodermis parkeri Dunn, Bull. Misc. Inform. Kew 1920: 206. 1920.

Distribution: Himachal Pradesh; upto 2350 m.

Leptodermis riparia R. Parker, Indian For. 50: 398. 1924.

Distribution: Himachal Pradesh, Uttarakhand.

Leptodermis scabrida Hook.f., Fl. Brit. India 3: 199. 1881.

Distribution: Arunachal Pradesh.

Leptodermis virgata Edgew. ex Hook.f., Fl. Brit. India 3: 198. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Leptomischus Drake

Leptomischus flaviflorus Hareesh, L. Wu & M. Sabu, Phytotaxa 332(1): 90. 2017.

Distribution: Arunachal Pradesh.

Leptomischus primuloides Drake, Bull. Mus. Hist. Nat. (Paris) 1: 117. 1895.

Distribution: Arunachal Pradesh; 1200 m.

Luculia Sweet

Luculia grandifolia Ghose, J. Bengal Nat. Hist. Soc. 25: 159. 1952.

Distribution: Arunachal Pradesh; 800–1200 m.

Luculia gratissima (Wall.) Sweet, Brit. Fl. Gard. t. 145. 1826. *Cinchona gratissima* Wall.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Luculia pinceana Hook., Curtis, Bot. Mag. Ser. 3.1., t. 4132. 1845.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1100–1800 m.

Meyna Roxb. ex Link

Meyna laxiflora Robyns., Bull. Jard. Bot. Brux. 11: 228. 1928.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Meyna spinosa Roxb. ex Link, Jahrb. Cewachsk 1(3): 32. 1820.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Mitracarpus Zucc.

Mitracarpus hirtus (L.) DC., Prodr. 4: 572. 1830. *Spermacoce hirta* L.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Mitragyna Korth.

Mitragyna parvifolia (Roxb.) Korth., *Observ. Naucl. Indic.* 19. 1839. *Nauclea parviflora* Roxb.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Mitragyna rotundifolia (Roxb.) Kuntze., *Revis. Gen. Pl.* 1: 289. 1891. *Nauclea rotundifolia* Roxb.

Distribution: West Bengal (Darjeeling).

Morinda L.

Morinda angustifolia Roxb., *Pl. Coromandel* 3: 32. 1815.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Morinda pubescens Sm., *Cyclop.* 24. n. 3. 1813.

Distribution: Arunachal Pradesh, 500–1500 m.

Morinda umbellata L., *Sp. Pl.* 176. 1753.

Distribution: Arunachal Pradesh.

Morinda villosa Hook.f., *Fl. Brit. India* 3: 158. 1880.

Distribution: Arunachal Pradesh, 500–800 m.

Mussaenda L.

Mussaenda frondosa L., *Sp. Pl.* 177. 1753.

Distribution: Arunachal Pradesh.

Mussaenda glabra Vahl, *Symb. Bot.* 3: 38. 1790.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1500 m.

Mussaenda incana Wall., *Fl. Ind.* 2: 229. 1824.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Mussaenda macrophylla Wall., *Fl. Ind.* 2: 228. 1824.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Mussaenda roxburghii Hook.f., *Fl. Brit. India* 3: 87. 1880.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 450–1500 m.

(Plate 248b)

Mussaenda treutleri Stapf., *Bot. Mag.* 135: t. 8254. 1909.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Mussaenda wallichii G.Don, *Gen. Syst.* 3: 490. 1834.

Distribution: Arunachal Pradesh.

Mycetia Reinw.

Mycetia listeri Deb, *Blumea* 14(1): 241. 1966.

Distribution: Arunachal Pradesh, 250–1200 m.

Mycetia longifolia (Wall.) O.Kuntze., Rev. Gen. Pl. 289. 1891. *Rondeletia longifolia* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 700–1800 m.

Mycetia mukerjiana Deb & R.M.Dutta, Indian For. 91(5): 272. 1965.

Distribution: Arunachal Pradesh. (Plate 250a)

Mycetia nepalensis H.Hara, J. Jap. Bot. 52: 198. 1977.

Distribution: Arunachal Pradesh, Uttarakhand; 500–1500 m.

Mycetia radiceflora (C.B.Clarke) Airy Shaw, Kew Bull. 19(3): 509. 1965. *Silvianthus radiceflorus* C.B.Clarke

Distribution: Arunachal Pradesh; 200–300 m.

Mycetia stipulata (Hook.f.) Kuntze., Rev. Gen. Pl. 289. 1891. *Adenosacme stipulata* Hook.f.

Distribution: Arunachal Pradesh.

Mycetia stipulata (Hook.f.) Kuntze. subsp. **macrostachya** (Hook.f.) Deb, Bull. Bot. Surv. India 28(14): 129. 1988. *Adenosacme macrostachya* Hook.f.

Distribution: Arunachal Pradesh, Sikkim.

Myrioneuron R.Br. ex Kurz

Myrioneuron nutans Wall. ex Kurz., Forest Fl. Burma 2: 55. 1877.

Distribution: Arunachal Pradesh; 1000–1500 m. (Plate 250b)

Neonauclea Mirr.

Neonauclea griffithii (Hook.f.) Merr., J. Wash. Acad. Sci. 5: 540. 1915. *Adina griffithii* Hook.f.

Distribution: Arunachal Pradesh.

Neonauclea purpurea (Roxb.) Merr., Interpr. Herb. Amboin. 483. 1917. *Nauclea purpurea* Rox.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Neanotis W.H.Lewis

Neanotis calycina (Wall. ex Hook.f.) W.H.Lewis, Ann. Missouri Bot. Gard. 53: 36. 1966. *Anotis calycina* Wall. ex Hook.f.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Neanotis gracillis (Hook.f.) W.H.Lewis, Ann. Missouri Bot. Gard. 53: 38. 1966. *Anotis gracilis* Hook.f.

Distribution: Sikkim; 1000–1500 m.

Neanotis hirsuta (L.f.) W.H.Lewis, Ann. Missouri Bot. Gard 53: 38. 1966. *Oldenlandia hirsuta* L.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling).

Neanotis ingrata (Wall. ex Hook.f.) W.H.Lewis, Ann. Missouri Bot. Gard. 53: 39. 1966. *Anotis ingrata* Wall. ex Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1500 m.

Neanotis lancifolia (Hook.f.) W.H.Lewis, Ann. Missouri Bot. Gard. 53: 39. 1966. *Anotis lancifolia* Hook.f.

Distribution: Uttarakhand.

Neanotis oxyphylla (Wall. ex G.Don) W.H.Lewis, Ann. Missouri Bot. Gard. 53: 39. 1966. *Oldenlandia oxyphylla* Wall. ex G.Don

Distribution: Sikkim; 1000–1500 m.

Neanotis rhombicarpa T.Yamaz., J. Jap. Bot. 63: 150. 1988.

Distribution: Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Neanotis wightiana (Wall. ex Wight & Arn.) W.H.Lewis, Ann. Missouri Bot. Gard. 53: 40. 1966. *Hedyotis wightiana* Wall. ex Wight & Arn.

Distribution: Arunachal Pradesh, Sikkim.

Neohymenopogon Bennet

Neohymenopogon parasiticus (Wall.) Bennet, Indian For. 107. 436. 1981. *Hymenopogon parasiticus* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–2800 m. **(Plate 251a)**

Neohymenopogon assamicus (Hook.f.) Bennet, Indian For. 107: 436. 1981. *Hymenopogon assamicus* Hook.f.

Distribution: Arunachal Pradesh; 500–1500 m.

Neolamarckia Bosser

Neolamarckia cadamba (Roxb.) Bosser, Bull. Mus. Natl. Hist. Nat., B, Adansonia 6: 247. 1984. *Nauclea cadamba* Roxb.

Distribution: Sikkim, Uttarakhand; 1000–1500 m.

Neonauclea Merr.

Neonauclea gageana (King) Merr, J. Wash. Acad. Sci. 5: 540. 1915. *Nauclea gageana* King

Distribution: Arunachal Pradesh; 500–700 m.

Neonauclea griffithii (Hook.f.) Merr., J. Wash. Acad. Sci. 5: 540. 1915. *Adina griffithii* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Neonauclea sessilifolia (Roxb.) Merr., J. Wash. Acad. Sci. 5: 542. 1915. *Nauclea sessilifolia* Roxb.

Distribution: Arunachal Pradesh; 600–800 m.

Nertera Banks & Sol. ex Gaertn.

Nertera sinensis Hemsl. ex F.B. Forbes & Hemsl., J. Linn. Soc. Bot. 23: 391 1888.

Distribution: Arunachal Pradesh; 1200–1500 m.

Nostolachma T.Durand

Nostolachma jenkinsii (Hook.f.) Deb & Lahiri, Bull. Bot. Surv. India 17(1–4): 162. 1978. *Coffea jenkinsii* Hook.f.

Distribution: Arunachal Pradesh; 1000–1500 m.

Nostolachma khasiana (Korth.) Deb & Lahiri, Bull. Bot. Surv. India 17: 152. 1978. *Coffea khasiana* Hook.f.

Distribution: Arunachal Pradesh; 1000–1200 m. (Plate 251b)

Oldenlandia L.

Oldenlandia affinis (Roem. & Schult.) DC., Prodr. 4: 428. 1830. *Hedyotis affinis* Roem. & Schult.

Distribution: Arunachal Pradesh.

Oldenlandia attenuata (Willd.) M.R.Almeida, Fl. Maharashtra 3A: 43. 2001. *Hedyotis attenuata* Willd.

Distribution: Uttarakhand.

Oldenlandia auricularia (L.) K.Schum., Nat. Pflanzenfam. 4(4): 25. 1891. *Hedyotis auricularia* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir.

Oldenlandia biflora L., Sp. Pl. 119 1753. *Hedyotis biflora* (L.) Lam.

Distribution: Uttarakhand, West Bengal (Darjeeling); 750–1800 m.

Oldenlandia brachypoda DC., Prodr. 4: 424. 1830.

Distribution: West Bengal (Darjeeling); 750–1800 m.

Oldenlandia diffusa (Willd.) Roxb., Hort. Bengal. 11 1814. *Hedyotis diffusa* Willd.

Distribution: Arunachal Pradesh, Himachal Pradesh, West Bengal (Darjeeling); 750–1500 m.

Oldenlandia corymbosa L., Sp. Pl. 119. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, 1000–2000 m.

Oldenlandia orymbosa L. var. **linearis** (DC.) Deb. & R.M.Dutta, J. Bombay Nat. Hist. Soc. 83. 692. 1986. *O. linearis* DC.

Oldenlandia erecta (Manilal & Sivar.) R.R.Mill, Edinburgh J. Bot. 53: 104. 1996. *Hedyotis erecta* Manilal & Sivar.

Distribution: West Bengal (Darjeeling); 750–1800 m.

Oldenlandia glabra (R.Br.) Kuntze, Revis. Gen. Pl. 1: 292. 1891. *Spermacoce glabra* Roxb.

Distribution: Arunachal Pradesh; 400–600 m.

Oldenlandia herbacea (L.) Roxb., Hort. Bengal. 11. 1814. *Hedyotis herbacea* L.

Distribution: Arunachal Pradesh, Uttarakhand.

Oldenlandia lineata (Roxb.) Kuntze, Revis. Gen. Pl. 1: 292. 1891. *Hedyotis lineata* Roxb.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Oldenlandia monocephala Kuntze, Revis. Gen. Pl. 1: 292. 1891.

Distribution: Arunachal Pradesh.

Oldenlandia ovatifolia (Cav.) DC, Prodr. 4: 427. 1830. *Hedyotis ovatifolia* Cav.

Distribution: Jammu & Kashmir, Uttarakhand.

Oldenlandia pumila (L.f.) DC., Prodr. 4: 425. 1830. *Hedyotis pumila* L.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Oldenlandia pinifolia (Wall. ex G.Don) Kuntze, Revis. Gen. Pl. 1: 292. 1891. *Hedyotis pinifolia* Wall. ex G.Don

Distribution: Uttarakhand.

Oldenlandia scabra (Wall. ex Kurz) Kuntze, Revis. Gen. Pl. 1: 293. 1891. *Hedyotis scabra* Wall. ex Kurz.

Distribution: Arunachal Pradesh.

Oldenlandia tenelliflora (Blume) Kuntze, Revis. Gen. Pl. 1: 292. 1891. *Hedyotis tenelliflora* Blume

Distribution: Arunachal Pradesh.

Oldenlandia umbellata L., Sp. Pl. 119. 1753.

Distribution: Uttarakhand.

Oldenlandia verticillata L., Mant. Pl. 1: 40. 1767.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1000 m.

Ophiorrhiza L.

Ophiorrhiza debiana Hareesh, A. Joe & M.Sabu, Phytotaxa 309 (3): 291. 2017.

Distribution: Arunachal Pradesh.

Ophiorrhiza fasciculata D.Don, Prodr. Fl. Nep. 136. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–1000 m.

Ophiorrhiza heterostyla Dunn, Kew Bull. 133. 1920.

Distribution: Arunachal Pradesh, 500–1500 m.

Ophiorrhiza hispida Hook.f., Fl. Brit. India 3: 83. 1880.

Distribution: Arunachal Pradesh; 500–1000 m.

Ophiorrhiza lurida Hook.f., Fl. Brit. India 3: 82. 1880.

Distribution: Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Ophiorrhiza mungos L., Sp. Pl. 150. 1753.

Distribution: Arunachal Pradesh, Sikkim; 1000–2500 m.

Ophiorrhiza nutans C.B.Clarke, Fl. Brit. India 3: 84. 1880.

Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

Ophiorrhiza ochroleuca Hook.f., Fl. Brit. India 3: 78. 1880.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1500 m.

Ophiorrhiza oppositifolia Hook.f., Fl. Brit. India 3: 80. 1880.

Distribution: Arunachal Pradesh.

Ophiorrhiza pauciflora Hook.f., Fl. Brit. India 3: 84. 1880.

Distribution: Arunachal Pradesh; 1000–2000 m.

Ophiorrhiza repens (Wall. ex G.Don) Bennet, Indian For. 108: 302. 1982.

Mussaenda repens Wall. ex G.Don.

Distribution: Arunachal Pradesh; 1000–1500 m.

Ophiorrhiza rosea Hook.f., Fl. Brit. India 3: 78. 1880.

Distribution: Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Ophiorrhiza rugosa Wall., Fl. Ind. 2: 546. 1824. var. **rugosa**

Distribution: Sikkim, West Bengal (Darjeeling).

Ophiorrhiza rugosa Wall. var. **argentea** (Wall.) Deb & Mondal, Bull. Bot. Surv.

India 24: 228. 1982. *O. argentea* Wall.

Distribution: Arunachal Pradesh.

Ophiorrhiza rugosa Wall. var. **prostrata** (D.Don) Deb & Mondal, Bull. Bot. Surv.

India 24: 228. 1983. *O. prostrata* D.Don.

Distribution: Arunachal Pradesh; 2000–2200 m.

Ophiorrhiza subcapitata Wall. ex Hook.f., Fl. Brit. India 3: 83. 1880.

Distribution: Arunachal Pradesh; 500–800 m.

Ophiorrhiza succirubra King ex Hook.f., Fl. Brit. India 3: 82. 1880.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1400–2000 m.

(Plate 252)

Ophiorrhiza thomsonii Hook.f., Fl. Brit. India 3: 82. 1880.

Distribution: Arunachal Pradesh; 500–1000 m.

Ophiorrhiza tingens C.B.Clarke ex C.E.C.Fisch., Kew Bull. 1940: 33. 1940.

Distribution: Arunachal Pradesh.

Ophiorrhiza treutleri Hook.f., Fl. Brit. India 3: 83. 1880.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–2400 m.

Ophiorrhiza trichocarpa Blume, Bijdr. 977. 1826.

Distribution: Arunachal Pradesh, 1500–2500 m.

Ophiorrhiza villosa Roxb., Fl. Ind. 1: 702. 1832.

Distribution: Arunachal Pradesh.

Ophiorrhiza wallichii Hook.f., Fl. Brit. India 3: 79. 1880.

Distribution: Arunachal Pradesh.

Ophiorrhiza wattii C.E.C.Fisch., Bull. Misc. Inform. Kew 1940: 34. 1940.

Distribution: Arunachal Pradesh; 2500–3000 m.

Oxyceros Lour.

Oxyceros longiflorus (Lam.) T.Yamaz., J. Jap. Bot. 45: 339. 1970. *Randia longiflora* Lam.

Distribution: Arunachal Pradesh.

Paederia L.

Paederia cruddasiana Prain., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 67: 295. 1898.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1200 m.

Paederia foetida L. Mant. Pl. 7: 52. 1767.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1300 m.

Pavetta L.

Pavetta crassicaulis Bremek., Fedde, Repert. 37. 112. 1934.

Distribution: Arunachal Pradesh, Uttarakhand.

Pavetta indica L., Sp. Pl. 110. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pavetta indica L. var. **glabrescens** (Kurz.) Deb & Rout., J. Bombay Nat. Hist. Soc. 89: 351. 1992. *Ixora tomentosa* Roxb. var. *glabrescens* Kurz.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Pavetta mollis Afzel. ex Hiern, Fl. Trop. Afr. 3: 174. 1877.

Distribution: Arunachal Pradesh.

Pavetta polyantha (Wall. ex Hook.f.) Wall. ex Bremek., Fl. Brit. India 3: 150. 1880. *P. indica* L. var. *polyantha* Wall. ex Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1300–1700 m.

Pavetta subcapitata Hook.f., Fl. Brit. India 3: 150. 1880.

Distribution: Arunachal Pradesh, Uttarakhand.

Pavetta tomentosa Roxb. ex Sm., Cycl. 26: 2. 1813.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pentas Benth.

Pentas lanceolata (Forssk.) Deflers, Voy. Yemen 142. 1889. *Ophiorrhiza lanceolata* Forssk.

Distribution: Uttarakhand.

Pitardella Tirveng.

Pitardella sikkimensis (Hook.f.) Tirveng., Biogeographica 79: 33. 2003. *Randia sikkimensis* Hook.f.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1200 m.

Polyura Hook.f.**Polyura geminata** Hook.f., Icon. Pl. 11: t. 1049. 1868.

Distribution: Arunachal Pradesh; 1000–1500 m.

Prismatomeris Thwaites**Prismatomeris tetrandra** (Roxb.) K. Schum., Nat. Pflanzenfam. 4(4): 138. 1891.
Coffea tetrandra Roxb.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1200 m.

Psychotria L.**Psychotria aborensis** Dunn, Kew Bull. 1920: 133. 1920.

Distribution: Arunachal Pradesh; 300–1200 m.

Psychotria adenophylla Wall., Fl. Ind. 2: 166. 1824.

Distribution: Arunachal Pradesh; 1400–1600 m.

Psychotria burkillii Deb & Gang., Bull. Bot. Surv. India 25: 213. 1985.

Distribution: Arunachal Pradesh; 300–1000 m.

Psychotria calocarpa Kurz, J. Asiat. Soc. Bengal 41(2): 315. 1872.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Psychotria denticulata Wall., Fl. Ind. 2: 166. 1824.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Psychotria erratica Hook.f., Fl. Brit. India 3: 168. 1880.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2000–2500 m.

Psychotria erratica Hook.f. var. **pedunculata** Hook.f., Fl. Brit. India 3(7): 169. 1880.

Distribution: Sikkim; 600 m.

Psychotria montana Blume, Bijdr. 960. 1826.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1000 m.

Psychotria monticola Kurz., J. Asiat. Soc. Bengal 2: 315. 1872.

Distribution: Arunachal Pradesh; 1500–3000 m.

Psychotria nicobarica Kurz, London J. Bot. 328. 1875.

Distribution: Arunachal Pradesh.

Psychotria silhetensis Hook.f., Fl. Brit. India 3: 174. 1880.

Distribution: Arunachal Pradesh; 500–1000 m.

Psychotria silhetensis . Hook f. subsp. **tomentosa** Deb & M.Gangob, J. Bombay Nat. Hist. Soc. 80(2): 466. 1983.

Distribution: Arunachal Pradesh.

Psychotria symplocifolia Kurz, For. Fl. Brit. Burma 2: 11. 1877.

Distribution: Arunachal Pradesh, Sikkim; 1000. 1500 m.

Psychotria thomsonii Hook.f., Fl. Brit. India 3: 173. 1880.

Distribution: Arunachal Pradesh.

Psydrax Gaertn.

Psydrax glabra (Blume) Deb & M.Gangop., *Nelumbo* 54: 267–268. 2012.
Canthium glabrum Blume

Distribution: Arunachal Pradesh, Sikkim.

Psydrax dicoccos Gaertn., *Fruct. Sem. Pl.* 1: 125. 1788.

Distribution: Arunachal Pradesh, Sikkim.

Ricardia Adans.

Richardia scabra L. *Sp. Pl.* 1: 330. 1753.

Distribution: Uttarakhand.

Rubia L.

Rubia albicaulis Boiss., *Diagn. Pl. Orient.* 3: 53. 1843.

Distribution: Jammu & Kashmir.

Rubia charifolia Wall ex G.Don., *Gen. Hist.* 3: 643. 1834.

Distribution: Jammu & Kashmir, Sikkim, West Bengal (Darjeeling); 300–1300 m.

Rubia chitralensis Ehrend., *Nytt Mag. Bot.* 3: 228. 1954.

Distribution: Jammu & Kashmir.

Rubia cordifolia L., *Sp. Pl.* 397. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000–4000 m. **(Plate 254a)**

Rubia dolichophylla Schrenk, *Bull. Cl. Phys.–Math. Acad. Imp. Sci. Saint–Pétersbourg* 2: 115. 1844.

Distribution: Jammu & Kashmir.

Rubia edgeworthii Hook.f., *Fl. Brit. India* 3: 203. 1881.

Distribution: Uttarakhand.

Rubia himalayensis klotzsch., *Bot. Ergebn. Reise Waldemar* 86. 1862.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Rubia hispidicaulis D.G.Long, *Edinburgh J. Bot.* 53: 109. 1996.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1950–3350 m.

Rubia infundibularis Hemsl. & Lace, *J. Linn. Soc.* 28: 324. 1891.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Rubia manjith Roxb. ex Fleming, *Asiat. Res.* 11: 177. 1810.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling). **(Plate 254b)**

Rubia sikkimensis Kurz, *J. Asiat. Soc. Bengal* 43(2): 188. 1874.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Rubia tibetica Hook.f., *Fl. Brit. India* 3: 204. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–3600 m.

Rubia tinctorum L., Sp. Pl. 109. 1753.

Distribution: Jammu & Kashmir.

Rubia wallichiana Decne., Acad. Roy. Sci. Bruxelles 12: 61. 1837.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1800–3300 m.

Saprosma Blume

Saprosma ternatum Benth. Hook.f., Gen. Pl. 2: 131. 1873.

Distribution: Arunachal Pradesh; 1200–1500 m.

Serissa Comm. ex Juss.

Serissa japonica (Thunb.) Thunb., Nov. Gen. Pl. 1: 132. 1798. *Lycium japonicum* Thunb.

Distribution: Uttarakhand.

Spermacoce L.

Spermacoce alata Aubl., Hist. Pl. Guiane 60. 1775.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Spermacoce articularis L.f., Suppl. Pl. 1: 119. 1782.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Spermacoce exilis (L.O.Williams) C.D.Adams ex W.C.Burger & C.M.Taylor, Fieldiana, Bot. n.s., 33: 316. 1993. *Borreria exilis* L.O. Williams

Distribution: Sikkim, Arunachal Pradesh.

Spermacoce hispida L., Sp. Pl. 102. 1753.

Distribution: Arunachal Pradesh, Uttarakhand.

Spermacoce ocymoides Burm.f., Ind. 34, t. 13. F. 1. 1768.

Distribution: Arunachal Pradesh.

Spennacoce pusilla Wall., Roxb., Fl. Ind. 1: 379. 1820.

Distribution: Arunachal Pradesh, Uttarakhand; 100–4500 m.

Spermacoce tenuior L., Sp. Pl. 102. 1753.

Distribution: Uttarakhand.

Spermedietyon Roxb.

Spermedietyon suaveolens Roxb., Pl. Corom. 3: 32, t. 236. 1815.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Silvianthus Hook.f.

Silvianthus bracteatus Hook.f., Icon. Pl. 11: 36, pl. 1048. 1868.

Distribution: Arunachal Pradesh.

(Plate 253)

Spiradiclis Blume

Spiradiclis arunachalensis Deb & R.C.Rout, *Candollea* 44: 225. 1989.

Distribution: Arunachal Pradesh

Spiradiclis bifida Kurz, *J. Asiat. Soc. Bengal* 41(2): 311. 1872.

Distribution: Arunachal Pradesh; 300–1000 m.

Spiradiclis cylindrica Wall. ex Hook, *Fl. Brit. India* 3: 76. 1880.

Distribution: Arunachal Pradesh; upto 1300 m.

Spiradiclis seshagirii Deb & R.C.Rout, *Candollea* 44: 227. 1989.

Distribution: Arunachal Pradesh; upto 1230 m.

Tamilnadia Tirveng. & Sastre

Tamilnadia uliginosa (Retz.) Tirveng. & Sastre, *Mauritius Inst. Bull.* 8(4): 85. 1979. *Gardenia uliginosa* Retz.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Tarenna Gaertn.

Tarenna asiatica (L.) O.Kuntze. ex K.Schum., *Bot. Tidsskr.* 24: 332. 1902.

Distribution: Arunachal Pradesh; 1000–1500 m.

Tarenna disperma (Hook.f.) Pit., *Fl. Gen. Indo-China* 3: 208. 1923. *Webera disperma* Hook.f.

Distribution: Arunachal Pradesh.

Tarenna odorata (Roxb.) B.L.Rob., *Pol. Amer. Acad. Sci.* 45: 405. 1910. *Webera odorata* Roxb.

Distribution: Arunachal Pradesh.

Tarennoidea Tirveng. & Sastre

Tarennoidea wallichii (Hook.f.) Tirveng. & Sastre, *Mauritius Inst. Bull.* 8(4): 90. 1979. *Randia wallichii* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Uncaria Schreb.

Uncaria homomalla Miq., *Fl. Ned. Ind.* 2: 343. 1857.

Distribution: Arunachal Pradesh; 200 – 500 m.

Uncaria macrophylla Wall., Roxb. *Fl. Ind.* 2: 132. 1824.

Distribution: Arunachal Pradesh, Sikkim.

Uncaria scandens Hutch., *Sarg. Pl. Wils.* 3: 406. 1916.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Uncaria sessilifructus Roxb., *Fl. Ind.* 2: 130. 1824.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1100 m.

Vangueria Juss.

Vangueria madagascariensis J.F.Gmel., *Syst. Nat. ed.* 13. 2: 367. 1791.

Distribution: Arunachal Pradesh.

Wendlandia Willd.

Wendlandia budleoides Wall. ex Wight & Arn., Prodr. Fl. Ind. Orient. 402. 1834.
Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 600–1300 m.

Wendlandia coriacea DC., Prodr. 4: 412. 1830.
Distribution: West Bengal (Darjeeling), Sikkim; 605–2134 m.

Wendlandia heynei (Schult.) Santapau & Merchant, Bull. Bot. Surv. India 3: 11. 1962. *Rondeletia heynei* Schult.
Distribution: Himachal Pradesh, Jammu & Kashmir and Uttarakhand

Wendlandia puberula DC., Prodr. 4: 412. 1830.
Distribution: Arunachal Pradesh, Hiamchal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 605–2134 m.

Wendlandia scabra Kurz, J. Asist. Soc. Bengal 12: 31. 1872.
Distribution: Arunachal Pradesh; 1800–2200 m.

Wendlandia sikkimensis Cowan, Notes Roy. Bot. Gard. Edinburgh 16: 246. 1932.
Distribution: Sikkim, West Bengal (Darjeeling); 605–2134 m.

Wendlandia speciosaosa Cowan, Notes Roy. Bot. Gard. Edinburgh 16: 254. 1932.
Distribution: Arunachal Pradesh; 600–1200 m.

Wendlandia tinctoria (Roxb.) DC., Prodr. 4: 411. 1830. *Rondeletia tinctoria* Roxb.
Distribution: Arunachal Pradesh; West Bengal (Darjeeling); 605–2134 m.

Wendlandia wallichii Wight & Arn., Prodr. Fl. Ind. Orient. 402. 1834.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

RUTACEAE

(21 genera; 60 taxa)

Acronychia J.R.Forst. & G.Forst.

Acronychia pedunculata (L.) Miq., Fl. Ind. Eerste Bijv. 532. 1861. *Jambolifera pedunculata* L.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 800–1300 m.

Aegle Corrêa

Aegle marmelos (L.) Correa, Trans. Linn. Soc. London 5: 223. 1800. *Crateva marmelos* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 1000 m.

Atalantia Corrêa

Atalantia caudata Hook.f., Fl. Brit. India 1. 513. 1875.
Distribution: Arunachal Pradesh; 1500–2000 m.

Boenninghausenia Rchb. ex Meisn.

Boenninghausenia albiflora (Hook.) Meissn., Pl. Vase. Gen. 2: 44. 1837. *Ruta albiflora* Hook.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–3000 m. **(Plate 254c)**

Casimiroa La Llave

Casimiroa edulis La Llave, Nov. Veg. Descr. 2: 2. 1825.

Distribution: Uttarakhand.

Citrus L.

Citrus aurantiifolia (Christm.) Swingle, J. Wash. Acad. Sci. 3: 465. 1913. *Limonia aurantiifolia* Christm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand. **(Plate 255a)**

Citrus aurantium L., Sp. Pl. 782. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 500–1200 m.

Citrus cavaleriei H.Lév. ex Cavalerie, Bull. Acad. Int. Géogr. Bot. 21: 211. 1911.

Distribution: Arunachal Pradesh.

Citrus jambhiri Lush., Indian For. 36: 342. 1910.

Distribution: Uttarakhand.

Citrus latipes (Swingle) Yu.Tanaka., Stud. Citrol. 2: 155. 1929. *C. ichangensis* Swingle subsp. *latipes* Swingle

Distribution: Uttarakhand.

Citrus limon (L.) Osbeck, Reise Ostindien 250. 1765. *C. medica* L. var. *limon* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 200–500 m.

Citrus limon (L.) Burm.f. var. **acida** Hook.f., Fl. Brit. India 1: 515. 1875.

Distribution: Arunachal Pradesh; 500–1200 m.

Citrus macroptera Montr. var. **annamensis** Tanaka, Bull. Nus. Hist. Nat. (paris), 2, ser. 2: 164. 1930.

Distribution: Uttarakhand.

Citrus maxima (Burm.f.) Merr., Interpr. Rumph. Herb. Amboin. 46. 1917. *Aurantium maximum* Burm.f.

Distribution: Sikkim, Uttarakhand.

Citrus medica L., Sp. Pl. 782. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–1200 m.

Citrus reticulata Blanco, Fl. Filip. 610. 1837.

Distribution: Sikkim.

Citrus sinensis (L.) Osbeck., Reise ostind & China 255. 1765. *C. auranticum* L. var. *sinensis* L.

Distribution: Arunachal Pradesh, Sikkim.

Clausena Burm.f.**Clausena excavata** Burm.f., Fl. Ind. 87, t. 29. f.2. 1768.

Distribution: Arunachal Pradesh, Sikkim; 100–1000 m.

Clausena heptaphylla Wight & Am., Prodr. Fl. Pen. Ind. Or. 95. 1834.

Distribution: Arunachal Pradesh, Sikkim; 200–500 m.

Clausena kanpurensis Molino., Bull. Mus. Hist. Nat., B, Adansonia 16: 117, f.2, 8, 9. 1994.

Distribution: Uttarakhand.

Clausena lansium (Lour.) Skeels, U.S. Dept. Agric. Bur. Pl. Ind. Bull. 168: 31. 1909. *Quinaria lansium* Lour.

Distribution: Arunachal Pradesh, Uttarakhand; 500–1200 m.

Dictamnus L.**Dictamnus albus** L., Sp. Pl. 383. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2700–3000 m.

Melicope J.R.Forst. & G.Forst.**Melicope lunu-ankenda** (Gaertn.) T.G.Hartley, Sandakania 4: 61. 1994. *Fagara lunu-ankenda* Gaertn.

Distribution: Arunachal Pradesh, Sikkim; 1000–1800 m.

Euodia J.R.Forst. & G.Forst.**Euodia ruticarpa** (A.Juss.) Benth., Fl. Hongk. 59. 1861.

Distribution: Arunachal Pradesh; 100–1000 m.

Euodia lunu-ankenda (Gaertn.) Merr., Philip. J. Sci. Bot. 7: 378. 1912. *Fagara lunuankenda* Gaertner

Distribution: Arunachal Pradesh.

Flindersia R.Br.**Flindersia australis** R.Br., Voy. Terra Austral. 2: 595. 1814.

Distribution: Uttarakhand.

Glycosmis Corrêa**Glycosmis borana** V.Naray. ex Tanaka, J. Indian Bot. Soc. 16: 228. 1937.

Distribution: Arunachal Pradesh.

Glycosmis cyanocarpa (Blume) Spreng., Syst. Vea. 4(Curr. Post.): 161. 1827. var. **cyanocarpa**. *Cookia cyanocarpa* Blume

Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

Glycosmis cyanocarpa (Blume) Spreng. var. **cymosa** Kurz., J. Bot. 14: 34. 1876.

Distribution: Arunachal Pradesh, Sikkim; upto 1500 m.

Glycosmis cyanocarpa (Blume) Spreng. var. **simplicifolia** Kurz., J. Bot. 14: 35. 1876.

Distribution: Arunachal Pradesh; upto 1200 m.

Glycosmis pentaphylla (Retz.) DC., Prodr. 1: 538. 1824. *Limonia pentaphylla* Retz.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 200–800 m.

Limonia L.

Limonia acidissima Groff, Lingnaam Agric. Rev. 2(L): 22. 1924.

Distribution: Arunachal Pradesh, Uttarakhand; 200–1000 m.

Micromelum Blume

Micromelum integerrimum (Buch.-Ham. ex DC.) Wight & Am. ex M.Roem., Fam. Nat. Reg. Veg. 1: 47.1846. *Bergera integerrima* Buch.-Ham. ex DC.

Distribution: Arunachal Pradesh, Sikkim; 200–1000 m.

Micromelum minutum Wight & Am., Prodr. Fl. Pen. Ind. Or. 1: 448. 1834.

Distribution: Arunachal Pradesh; 400–1200 m.

Murraya J.Koenig ex L.

Murraya koenigii (L.) Spreng., Syst. Veg. 2: 315. 1817. *Bergera koengii* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Murraya paniculata (L.) Jack, Malay. Misc. 1. 31. 1820. *M. exotica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 400–2100 m.

Naringi Adans.

Naringi crenulata (Roxb.) Nicolson, Fl. Hassan Dist. 387. 1976. *Limonia crenulata* Roxb.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 1200 m.

Paramignya Wight

Paramignya griffithii Hook.f., Fl. Brit. India 1: 510. 1875.

Distribution: Arunachal Pradesh; 100–1000 m.

Paramignya monophylla Wight. III. Ind. Bot. 1: 109. 1838.

Distribution: Arunachal Pradesh, Sikkim; 500–1400 m.

Skimmia Thunb.

Skimmia anquetilia N.P.Taylor & Airy Shaw, Bot. Mag. 180: 170. 1979.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1600–3000 m.

Skimmia arborescens T.Anders. ex Gamble, J. Linn. Soc. Bot. 43: 491. 1916. subsp. **arborescens**

Distribution: Sikkim; 1500–2750 m.

Skimmia arborescens T.Anders. ex Gamble subsp. **nitida** N.P.Taylor & Airy Shaw, Kew Mag. 4(4): 185. 1987.

Distribution: Arunachal Pradesh; upto 2750 m.

Skimmia arunachalensis Goel & Mehrotra, J. Bombay Nat. Hist. Soc. 86(2): 26. 1989.

Distribution: Arunachal Pradesh; 2000–2500 m.

Skimmia kamengensis Goel & Mehrotra, J. Bombay Nat. Hist. Soc. 86(2): 228. 1989.

Distribution: Arunachal Pradesh; 2800–3500 m.

Skimmia laureola (DC.) Siebold & Zucc. ex Walp., Rep. 5: 405. 1845. *Limonia laureola* DC.

Distribution: Himachal Pradesh, Sikkim; 2100–4000 m.

Skimmia multinervia C.C.Huang, Acta Phytotax. Sin. 7(4): 348–349, pl. 67, f. 1. 1958. *S. laureola* (DC.) Siebold & Zucc. ex Walp. subsp. *multinervia* (C.C.Huang) N.P.Taylor & Airy Shaw

Distribution: Arunachal Pradesh, Sikkim; upto 4000 m.

Tetradium Lour.

Tetradium fraxinifolium (Hook.f.) T.G.Hartley, Gard. Bull. Singapore 34(1): 102–105. 1981. *Philagonia fraxinifolia* Hook.f.

Distribution: Arunachal Pradesh, Sikkim; 900–2500 m.

Tetradium glabrifolium (Champ. ex Benth.) T.G.Harley, Gard. Bull. Straits Settlements 34: 109. 1981. *Boymia glabrifolia* Champ. ex Benth.

Distribution: Arunachal Pradesh, Sikkim; 600–1200 m.

Tetradium ruticarpum (A.Juss.) T.G.Harley, Gard. Bull. Singapore 34: 116. 1981. *Boymia rutaecarpa* A.Juss.

Distribution: Sikkim; 1700–2500 m.

Toddalia Juss.

Toddalia asiatica (L.) Lamk., Tab. Encycl. 2: 116. 1797. *Paullimia asiatica* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1600 m. (Plate 255b)

Zanthoxylum L.

Zanthoxylum acanthopodium DC., Prodr. 1: 727. 1824.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–2500 m. (Plate 257a)

Zanthoxylum armatum DC., Prodr. 1: 727. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–2000 m. (Plate 257b)

Zanthoxylum burkillianum Babu, Bull. Bot. Surv. India 16(1–4): 55. 1977.

Distribution: Arunachal Pradesh; 300–400 m.

Zanthoxylum myriacanthum Wall. ex Hook.f., Fl. Brit. India 1: 496. 1875.

Distribution: Sikkim; upto 600 m.

Zanthoxylum nitidum (Roxb.) DC., Prodr. 1: 727. 1824. *Fagara nitida* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 400–500 m.

Zanthoxylum ovalifolium Tutcher, J. Linn. Soc., Bot. 37: 64. 1905.

Distribution: Arunachal Pradesh, Sikkim; 500–1500 m.

Zanthoxylum oxyphyllum Edgew., Trans. Linn. Soc. London 20: 42. 1846.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2700 m.

(Plate 256a)

Zanthoxylum pseudoxyphyllum Babu, Bull. Bot. Surv. India 16: 66. 1974 (1977).

Distribution: Arunachal Pradesh.

Zanthoxylum rhetsa DC., Prodr. 1: 728. 1824.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–2000 m.

Zanthoxylum tomentellum Hook.f., Fl. Brit. India 1: 493. 1875.

Distribution: Sikkim.

SABIACEAE

(2 genera; 16 taxa)

Meliosma Blume

Meliosma arnottiana (Wight) Walp., Repert. Bot. Syst. 1: 423. 1842. *Millingtonia arnottiana* Wight

Distribution: Arunachal Pradesh, Sikkim.

Meliosma dilleniifolia (Wall. ex Wight & Arn.) Walp., Repert. Bot. Syst. 1: 423. 1842. *Millingtonia dilleniifolia* Wall. ex Wight & Arn.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal; 1800–2000 m.

Meliosma pinnata (Roxb.) Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 12: 64. 1868. *Millingtonia pinnata* Roxb.

Distribution: Arunachal Pradesh, Uttarakhand, Sikkim; 100–600 m. (Plate 258a)

Meliosma pinnata (Roxb.) Maxim. var. **barbulata** (Cufod.) Y.W. Law, Acta. Phytotaxa. Sin. 20(4): 431. 1982. *M. rhoifolia* Maxim. subsp. *barbulata* Cufod.

Distribution: Sikkim.

Meliosma simplicifolia (Roxb.) Walp., Repert. Bot. Syst. 1: 423. 1842. *Millingtonia simplicifolia* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 300–1000 m.

Meliosma simplicifolia (Roxb.) Walp. subsp. **pungens** Beusekom, Blumea 19 (3): 462. 1971. *Millingtonia simplicifolia* Roxb.

Distribution: Himachal Pradesh.

Meliosma thomsonii King ex Brandis, Ind. Trees. 195. 1906.

Distribution: Sikkim.

Meliosma yunnanensis Franch., Bull. Soc. Bot. France 33: 465. 1886.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1800–2200 m.

Sabia Colebr.**Sabia campanulata** Wall., Fl. Ind. 2: 311–312. 1824. var. **campanulata**

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 800–3300 m. (Plate 256b)

Sabia campanulata Wall. var. **kingiana** Nayar & Majumder, Bull. Bot. Surv. India 24: 219. 1982.

Distribution: Sikkim; 1500–3000 m.

Sabia campanulata Wall. subsp. **ritchiae** (Rehder & E. H. Wilson) Y.F. Wu, Acta Phytotax. Sin. 20: 426. 1982. *S. ritchieae* Rehder & E. H. Wilson

Distribution: Himachal Pradesh.

Sabia lanceolata Colebr., Trans. Linn. Soc. London 12: 355, pl. 14, 1819.

Distribution: Arunachal Pradesh, Uttarakhand; 500–900 m. (Plate 257c)

Sabia limoniacea Wall. ex Hook.f. & Thomson, Fl. Ind. 1: 210. 1855.

Distribution: Sikkim, West Bengal; upto 1200 m.

Sabia paniculata Edgew. ex Hook.f. & Thomson, Fl. Ind. 1: 211. 1855.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1400 m.

Sabia parviflora Wall., Fl. Ind. 2: 310–311. 1824.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1100 m.

Sabia purpurea Hook. f. & Thomson, Fl. Ind. 1: 209. 1855.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000–2500 m.

SALICACEAE
(2 genera; 62 taxa)**Populus** L.**Populus alba** L., Sp. Pl. 1034. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Populus caspica (Bornm.) Bornm., Feddes Repert. 47: 70. 1939. *P. alba* L. var. *caspica* Bornm.

Distribution: Himachal Pradesh.

Populus ciliata Wall. ex Royle, Bot. Himal. 346. t. 98 (84a), f. 1. 1839.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 3700 m.

Populus deltoides Marshall, Arbust. Amer. 106. 1785.

Distribution: Jammu & Kashmir.

Populus euphratica Oliv., Voy. Emp. Othoman 3: 449. 1807.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Populus gamblei Dode, Extr. Monogr. Imed. Populus 63. 1905.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1200 m.

Populus glauca Haines, J. Linn. Soc. Bot. 37 (262): 408. 1906.

Distribution: Sikkim; 2750 m.

Populus nigra L. var. **italica** Münchn, Deutsche Dendr. 81. 1893.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Populus pamirica Komar., Journ. Bot. URSS. 19: 510. 1934.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Salix L.

Salix acmophylla Boiss., Diag. Pl. Or. Ser. 1. 7: 98. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Salix acutifolia Willd., Sp. Pl. 4(2): 668. 1805.

Distribution: Himachal Pradesh, Uttarakhand; 1800–3000 m.

Salix alba L., Sp. Pl. 1021. 1753. var. **alba**.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Salix alba L. var. **caerulea** (Sm.) Sm., Engl. Fl. 4: 231 1828. *S. caerulea* Sm.

Distribution: Jammu & Kashmir.

Salix babylonica L., Sp. Pl. 1017. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2700–3800 m.

Salix bhutanensis Flod., Bot. Notiser 227. 1940.

Distribution: Arunachal Pradesh, Sikkim; 2800–3000 m.

Salix blakii Goerz, Repert. Spec. Nov. Regni Veg. 36(936–941): 31–32. 1934.

Distribution: Jammu & Kashmir.

Salix caesia Vill., Hist. Pl. Dauphine 3: 768. 1789.

Distribution: Jammu & Kashmir.

Salix calyculata Hook.f. ex Andersson, J. Linn. Soc. Bot. 4: 55. 1860. var. **calyculata**

Distribution: Sikkim, Uttarakhand; 3800–4570 m. **(Plate 258b)**

Salix calyculata Hook.f. ex Andersson var. **gongshanica** C.Wang & C.F.Fang, Bull. Bot. Lab. N.E. Forest. Inst., Harbin. 9: 4. 1980.

Distribution: Sikkim; 3600–5000 m.

Salix caprea L., Sp. Pl. 1020. 1753.

Distribution: Jammu & Kashmir.

Salix daltoniana Andersson, J. Linn. Soc. Bot. 4: 49. 1860.

Distribution: Arunachal Pradesh, Sikkim; upto 3950 m.

Salix daphnoides Vill., Prosp. Hist. Pl. Dauphine: 51. 1779.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2700–3750 m.

Salix denticulata Andersson, Kungl. Svensk. Vet. Akad. Handl. 1850: 481. 1851.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3200–4500 m.

Salix disperma Roxb. ex D. Don, Prodr. Fl. Nep. 58. 1825.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand: 1500–3720 m. **(Plate 258c)**

Salix divergens Andersson., Prodr. 16(2): 316. 1868.
Distribution: Himachal Pradesh.

Salix eriostachya Wall. ex Andersson, Kongl. Vetensk. Acad. Handl. 1850: 493. 1851.
Distribution: Sikkim, West Bengal (Darjeeling); upto 3600 m.

Salix excelsa S.G. Gmel., Reise Russland 3: 308. 1774.
Distribution: Jammu & Kashmir.

Salix flabellaris Andersson, Vet. Akad. Handl. 1850: 497. 1851.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3330–5250 m. **(Plate 259a)**

Salix x fragilis L., Sp. Pl. 1017. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir.

Salix fruticulosa Andersson, J. Linn. Soc. Bot. 4: 53. 1860.
Distribution: Himachal Pradesh; 4100 m. **(Plate 259b)**

Salix furcata Andersson., Prodr. 16. 2: 291. 1868.
Distribution: Himachal Pradesh, Uttarakhand.

Salix hylematica C.K. Schneid., Pl. Wilson. 3: 456. 1917.
Distribution: Uttarakhand.

Salix iliensis Regel, Trudy Imp. S. Peterburgsk. Bot. Sada 6(2): 464. 1880.
Distribution: Jammu & Kashmir.

Salix insignis Andersson, J. Linn. Soc., Bot. 4: 47. 1860.
Distribution: Jammu & Kashmir.

Salix karelinii Turcz. ex Stschegl., Bull. Soc. Imp. Naturalistes Moscou, 27(1): 196. 1854.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4700 m.

Salix lindleyana Wall. ex Andersson, Kongl. Vetensk. Akad. Handl. Stockholm 1850: 499. 1851.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–5000 m.

Salix longiflora Andersson, J. Linn. Soc. Bot. 4: 50. 1860.
Distribution: Arunachal Pradesh, Sikkim; 2500–3100 m.

Salix myrtillaceae Andersson, J. Linn. Soc. Bot. 4: 51. 1860.

Distribution: Sikkim; 3650–3800 m.

Salix obscura Andersson, Prodr. 16(2): 269. 1868.

Distribution: Himachal Pradesh, Sikkim; 2900 m.

Salix oreophila Hook.f. ex Andersson, J. Linn. Soc. Bot. 4: 57. 1860. var. **oreophila**.

Distribution: Arunachal Pradesh, Sikkim; 4250–4700 m.

Salix oreophila Hook.f. ex Andersson var. **secta** (Hook.f. ex Andersson) Andersson, Prodr. 16(2): 297. 1868. *S. secta* Hook.f. ex Andersson

Distribution: Sikkim; upto 900 m.

Salix oxycarpa Andersson var. **serrata** Andersson, J. Linn. Soc. Bot. 4: 45. 1860.

Distribution: Himachal Pradesh.

Salix pseudocalyculata Kimura, Fl. E. Himal. 46. 1966.

Distribution: Sikkim; 3800 m.

Salix psilostigma Andersson, Kongl. Vetensk. Acad. Handl. 1850: 496. 1851.

Distribution: Sikkim, West Bengal (Darjeeling); 1300–3700 m.

Salix purpurea L., Sp. Pl. 1017. 1753.

Distribution: Jammu & Kashmir.

Salix pycnostachya Andersson, J. Linn. Soc. Bot. 4: 44. 1860. var. **pycnostachya**

Distribution: Himachal Pradesh, Jammu & Kashmir; 3200–4000 m.

Salix pycnostachya Andersson var. **oxycarpa** (Andersson) Y.L.Chou & C.F.Fang, Fl. Republ. Popularis Sin. 20(2): 369. 1984. *S. oxycarpa* Andersson

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2800–4300 m.

Salix radinostachya C.K.Schneid., Pl. Wilson. 3(1): 116. 1916.

Distribution: Sikkim; 2745 m.

Salix salwinensis Hand.-Mazz. ex Enander, Sitzungsber. Kaiserl. Akad. Wiss., Math. Naturwiss. Cl. 63: 95. 1881.

Distribution: Sikkim; 2450 m.

Salix sclerophylla Andersson, J. Proc. Linn. Soc. Bot. 4: 52. 1860.

Distribution: Jammu & Kashmir, Uttarakhand.

Salix sericocarpa Andersson, J. Linn. Soc. Bot. 4: 43. 1860.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Salix serpyllum Andersson, J. Linn. Soc. Bot. 4: 55. 1859.

Distribution: Arunachal Pradesh, Sikkim; upto 4500 m.

Salix sikkimensis Andersson, Prodr. 16(2): 268. 1868.

Distribution: Arunachal Pradesh, Sikkim; 3350–4000 m.

(Plate 261b)

Salix tetrasperma Roxb., Pl. Corom. 1: 66, t. 97. 1798.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–900 m.

Salix thomsoniana Andersson, J. Proc. Linn. Soc., Bot. 4: 54. 1860.

Distribution: Sikkim; 2440–3050 m.

Salix triandra L., Sp. Pl. 1016. 1753.

Distribution: Jammu & Kashmir.

Salix viminalis L., Sp. Pl. 1021. 1753.

Distribution: Jammu & Kashmir.

Salix wallichiana Andersson, Kongl. Svenska Vet. Acad. Handl. 1850: 477. 1851.

var. **wallichiana**

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 1500–3900 m.

Salix wallichiana Andersson var. **sericea** Andersson, Vet. Akad. Handl. 5: 81. 11865.

Distribution: Himachal Pradesh.

Salix wilhelmsiana M.Bieb., Fl. Taur. Caucas. 3: 627. 1819.

Distribution: Jammu & Kashmir.

Salix zangica N.Chao, Bull. Bot. Lab. N.E. Forest Inst., Harbin. 9: 26. 1980.

Distribution: Arunachal Pradesh; 3800–4200 m.

SAMYDACEAE

(1 genus; 6 taxa)

Casearia Jacq.

Casearia glomerata Roxb., Fl. Ind. 2: 419. 1824.

Distribution: Arunachal Pradesh, Sikkim; 800–1500 m.

Casearia graveolens Dalzell, Hooker's J. Bot. Kew Gard. Misc. 4: 107. 1852.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Casearia kurzii C.B. Clarke, Fl. Brit. India 2: 594. 1879.

Distribution: Arunachal Pradesh, Sikkim; 600–1200 m.

Casearia tomentosa Roxb., Fl. Ind. 2: 421. 1824.

Distribution: Jammu & Kashmir, Uttarakhand.

Casearia vareca Roxb., Fl. Ind. 2: 418. 1832.

Distribution: Arunachal Pradesh, Sikkim; 500–800 m.

Casearia esculenta Roxb., Fl. Ind. 2: 422. 1824.

Distribution: Arunachal Pradesh, Sikkim; up to 1800 m.

SANTALACEAE

(7 genera; 13 taxa)

Arceuthobium M.Bieb.

Arceuthobium minutissimum Hook.f., Fl. Brit. India 5: 227. 1886.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Arceuthobium oxycedri (DC.) M.Bieb., Fl. Taur. Cauc. 3: 629. 1819. *Viscum oxycedri* DC.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3500 m.

Dendrotrophe Miq.

Dendrotrophe granulata (Hook.f. & Thomson ex A.DC.) A.N.Henry & B. Roy, Bull. Bot. Surv. India 10: 276. 1969. *Henslowia granulata* Hook.f. & Thomson ex A.DC.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500-2500 m.

Dendrotrophe platyphylla (Spreng.) N.H.Xia & M.G.Gilbert, Fl. China 5: 216. 2003. *Viscum platyphyllum* Spreng.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 800-2000 m.

Osyris L.

Osyris lanceolata Hochst. ex Steud., Exsicc. (Unio Itin.): 1832. 1832.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1000–2000 m. **(Plate 260b)**

Phacellaria Benth.

Phacellaria compressa Benth., Gen. Pl. 3: 229. 1880.

Distribution: Arunachal Pradesh; 2000 m.

Pyricularia Michx.

Pyricularia edulis (Wall.) A.DC., Prodr. 14(2): 628. 1857. *Sphaerocarya edulis* Wall.

Distribution: Sikkim; 900–2000 m.

Santalum L.

Santalum album L., Sp. Pl. 349. 1753.

Distribution: Uttarakhand.

Thesium L.

Thesium emodi Hendrych, Feddes Repert. 70: 152.

Distribution: Sikkim; 3500–4000 m.

Thesium himalense Royle ex Edgew., Trans. Linn. Soc. 20: 88. 1846.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3700 m.

Thesium hookeri Hendrych, Acta Horti Bot. Prag. 109. 1962.

Distribution: Himachal Pradesh, Jammu & Kashmir; 3900–4300 m.

Thesium multicaule Ledeb., Fl. Altaic. 1: 276. 1829.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4250 m.

Thesium rupestre Ledeb., Fl. Altaic. 1: 277. 1829.

Distribution: Jammu & Kashmir.

SAPINDACEAE
(11 genera; 24 taxa)

Allophylus L.

Allophylus chartaceus (Kurz) Radlk., Nat. Pflanzenfam. 3(5): 313. 1895.
Schmidelia chartacea Kurz
Distribution: Arunachal Pradesh, Sikkim; 200–1000 m.

Allophylus cobbe (L.) Raeusch., Nomencl. Bot. ed. 3: 108. 1797. *Rhus cobbe* L.
Distribution: Arunachal Pradesh; 600–1200 m.

Allophylus serratus (Hiern) Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 44(2): 185. 1876. *Allophylus cobbe* f. *serratus* Hiern
Distribution: Arunachal Pradesh; 700–1200 m.

Allophylus subfalcatus Radlk. var. **distachyus** (DC.) S.Mukh., Indian For. 98: 493. 1972. *Schmidelia distachya* DC.
Distribution: Arunachal Pradesh.

Allophylus triphyllus Merr., Philipp. J. Sci. Bot. 19: 363. 1921.
Distribution: Arunachal Pradesh; 500–1000 m.

Allophylus zeylanicus L., Sp. Pl. 348. 1753.
Distribution: Arunachal Pradesh; 500–1200 m.

Cardiospermum L.

Cardiospermum halicacabum L., Sp. Pl. 366. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1500 m.

Cardiospermum microcarpum Kunth, Rumphia 3: 185. 1847.
Distribution: Sikkim.

Dimocarpus Lour

Dimocarpus longan Lour., Fl. Cochinch. 233.1790.
Distribution: Arunachal Pradesh; 100–500 m.

Dodonaea Mill.

Dodonaea viscosa (L.) Jacq., Enum. Syst. Pl. 19. 1760. *Ptelea viscosa* L.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Koelreuteria Laxm.

Koelreuteria paniculata Laxm., Novi Comment. Acad. Sci. Imp. Petrop. 16: 563. 1772.
Distribution: Uttarakhand.

Lepisanthes Blume

Lepisanthes erecta (Thwaites) Leenh., Blumea 17: 69. 1969. *Nephelium erectum* Thwaites
Distribution: Arunachal Pradesh; 1500–1800 m. **(Plate 262a)**

Lepisanthes rubiginosa (Roxb.) Leenh., *Blumea* 17(1): 82. 1969. *Sapindus rubiginosus* Roxb.

Distribution: Sikkim.

Lepisanthes senegalensis (Poir.) Leenh., *Blumea* 17: 85. 1969. *Sapindus senegalensis* Poir.

Distribution: Arunachal Pradesh, Sikkim; 300–1000 m.

Lepisanthes tetraphylla Radlk., *Sitzungsber. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. München* 8: 276. 1878.

Distribution: Arunachal Pradesh; 1300–1600 m.

Litchi Sonn.

Litchi chinensis Sonn., *Voy. Indes Orient.* ed. 2, 3: 255. 1782.

Distribution: Sikkim, Uttarakhand.

Nephelium L.

Nephelium mutabile Blume, *Rumphia* 3: 104. 1849.

Distribution: Arunachal Pradesh; 600–900 m.

Nephelium ramboutan-ake (Labill.) Leenh., *Blumea* 31(2): 415. 1986. *Litchi ramboutan-ake* Labill.

Distribution: Arunachal Pradesh.

(Plate 260a)

Sapindus L.

Sapindus mukorossi Gaertn., *Fruct. Sem. Pl.* 1: 342, pl. 70, f. 3. 1788.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 400–1000 m.

Sapindus rarak DC., *Prodr.* 1: 608. 1824.

Distribution: Arunachal Pradesh; 100–1000 m.

Sapindus saponaria L., *Sp. Pl.* 367. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Sapindus trifoliatus L., *Sp. Pl.* 36(1): 586. 1753.

Distribution: Uttarakhand.

Schleichera Wild.

Schleichera oleosa (Lour.) Merr., *Interpr. Rumph. Herb. Amboin.* 337. 1917. *Pistacia oleosa* Lour.

Distribution: Uttarakhand.

Xerospennum Blume

Xerospermum glabratum Radlk., *Sap. Holt. Ind.* 23:93. 1877.

Distribution: Arunachal Pradesh; 50–1000 m.

SAPOTACEAE
(7 genera; 12 taxa)**Chrysophyllum** L.**Chrysophyllum cainito** L., Sp. Pl. 192. 1753.

Distribution: Uttarakhand.

Chrysophyllum roxburghii G.Don, Gen. Hist. 4: 33. 1837.

Distribution: Arunachal Pradesh; upto 1000 m.

Diploknema Pierre**Diploknema butyracea** (Roxb.) H.J.Lam, Bull. Jard. Bot. Buitenzorg III, 7: 186. 1925. *Bassia butyracea* Roxb.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 820–2500 m.

Diploknema butyraceoides (M.B.Scott) H.J.Lam, Bull. Jard. Bot. Buitenzorg III, 8: 465. 1927. *Bassia butyraceoides* M.B.Scott

Distribution: Arunachal Pradesh; 800–1200 m.

Madhuca Ham. ex J.F. Gmel.**Madhuca longifolia** (J.Koenig ex L.) J.F.Macbr., Contr. Gray Herb. n.s., 53: 17. 1918. *Bassia longifolia* J.Koenig ex L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Madhuca longifolia (J.Koenig ex L.) J.F.Macbr., Rep. Bot. Appl. 23: 149. 1943. var. **latifolia**. *Bassia latifolia* Roxb.

Distribution: Uttarakhand.

Manilkara Adans.**Manilkara hexandra** Dubard, Ann. Mus. Colon. Marseille sér. 3, 3: 9. 1915.

Distribution: Uttarakhand.

Manilkara zapota (L.) P.Royen, Blumea 7: 410. 1953. *Achras zapota* L.

Distribution: Uttarakhand.

Mimusops L.**Mimusops elengi** L., Sp. Pl. 349. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 180–500 m.

Palaquium Blanco**Palaquium obovatum** (Griff.) Engl., Bot. Jahrb. Syst. 12: 51. 1890. *Isonandra obovata* Griff.

Distribution: Arunachal Pradesh.

Palaquium polyanthum (Wall. ex G.Don) Baill., Traité Bot. Méd. Phan. 1500. 1884. *Bassia polyantha* Wall. ex G.Don

Distribution: Arunachal Pradesh.

Xantolis Raf.

Xantolis hookeri (C.B.Clarke) P.Royen, Blumea 8: 214. 1957. *Sideroxylon hookeri* C.B.Clarke

Distribution: West Bengal (Darjeeling).

SARCOSPERMATACEAE

(2 genera; 3 taxa)

Sarcosperma Hook.f.

Sarcosperma arboreum Hook.f., Gen. Pl. 2: 655. 1876.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 915–1325 m.

Sarcosperma griffithii Hook.f. ex C.B.Clarke, Fl. Brit. India 3: 536. 1882.

Distribution: Arunachal Pradesh.

Stylidium Lour.

Stylidium kunthii Wall., Numer. List 3759. 1831.

Distribution: Sikkim.

SAURURACEAE

(1 genus; 1 taxon)

Houttuynia Thunb.

Houttuynia cordata Thunb., Kongl. Vetensk. Acad. Nya Handl. 4: 149. 1783.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1000–1500 m.

SAXIFRAGACEAE

(7 genera; 105 taxa)

Astilbe Buch.-Ham. ex D.Don

Astilbe rivularis Buch.-Ham. ex D.Don, Prodr. Fl. Nep. 211. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3600 m. **(Plate 263a)**

Astilbe rubra Hook.f. & Thomson, Curtis, Bot. Mag. 83: t. 1859.

Distribution: Arunachal Pradesh.

Bergenia Moench

Bergenia ciliata (Haw.) Sternb., Rev. Saxifr. Suppl. 2: 2. 1831. *Megascea ciliata* Haw.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m. **(Plate 264)**

Bergenia pacumbis (Buch.-Ham. ex D.Don) C.Y.Wu & J.T.Pan, Acta Phytotax. Sin. 26: 126. 1988. *Saxifraga pacumbis* Buch.-Ham. ex D.Don.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Bergenia purpurascens (Hook.f. & Thomson) Engl., Bot. Zeit. 26: 841. 1868.
Saxifraga purpurascens Hook.f. & Thomson
 Distribution: Arunachal Pradesh, Sikkim; 3700–4800 m. **Plate 262b)**

Bergenia stracheyi (Hook.f. & Thomson) Engl., Bot. Zeitung 26: 842. 1868.
Saxifraga stracheyi Hook.f. & Thomson
 Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Chrysosplenium L.

Chrysosplenium arunachalense Bhaumik, Kew Bull. 69(1). 9491: 1. 2014.
 Distribution: Arunachal Pradesh; 3438 m.

Chrysosplenium carnosum Hook.f. & Thomson, L. Proc. Linn. Soc., Bot. 2: 73. 1858.
 Distribution: Sikkim, Uttarakhand; 4400–4600 m.

Chrysosplenium forrestii Diels, Notes Roy. Bot. Gard. Edinburgh 5: 282. 1912.
 Distribution: Sikkim; 3400–4200 m.

Chrysosplenium griffithii Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 74. 1857.
 Distribution: Sikkim; 3000–4000 m.

Chrysosplenium lanuginosum Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 74. 1857.
 Distribution: Arunachal Pradesh, Sikkim; 2500–3500 m.

Chrysosplenium nepalense D.Don, Prodr. Fl. Nep. 210. 1825.
 Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2000–4000 m.

Chrysosplenium nudicaule Bunge, Fl. Altaic. 2: 114. 1830.
 Distribution: Sikkim; 4100–4600 m.

Chrysosplenium singalilense H.Hara, Journ. Jap. Bot. xxxvi. 77. 1961.
 Distribution: Sikkim.

Chrysosplenium tenellum Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 73. 1857.
 Distribution: Himachal Pradesh, Uttarakhand; 2000–3500 m.

Chrysosplenium trichospermum Edgew. ex Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 73. 1858.
 Distribution: Jammu & Kashmir, Uttarakhand.

Dichroa Lour.

Dichroa febrifuga Lour., Fl. Coghinch. 1: 301. 1790.
 Distribution: Arunachal Pradesh, Sikkim; upto 2500 m. **Plate 263b)**

Rodgersia A.Gray

Rodgersia nepalensis Cullen., Notes Roy. Bot. Gard. Edinburgh 34(1): 116. 1975.
 Distribution: Sikkim; 3000 m.

Saxifraga L.

Saxifraga andersonii Engl., Bot. Jahrb. Syst. 48(3–4): 609, descr. 1912.

Distribution: Sikkim; 3500–4570 m.

Saxifraga aristulata Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 68. 1858.

Distribution: Sikkim, Uttarakhand; 4200 m.

Saxifraga asarifolia Sternb., Revis. Saxifrag. Suppl. 2: 33, t 24. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Saxifraga assamensis Wadhwa, Bull. Bot. Surv. India 50: 205. 2009.

Distribution: Arunachal Pradesh; 3600–3900 m.

Saxifraga brachypoda D.Don, Trans. Linn. Soc. London 13(2): 378. 1822.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Saxifraga brunonis Wall. ex Ser., DC. Prodr. 4: 45. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 265a)**

Saxifraga caveana W.W.Sm., Rec. Bot. Surv. India iv. 193. 1911.

Distribution: Sikkim; 3500–4570 m.

Saxifraga cernua L., Sp. Pl. 1: 403. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2500 m.

Saxifraga chadwellii Wadhwa, Bull. Bot. Surv. India 28: 157. 1986.

Distribution: Jammu & Kashmir.

Saxifraga chumbiensis Engl. & Irmsch., Bot. Jahrb. Syst. 48(3–4): 582. 1912.

Distribution: Sikkim; 3600–4600 m.

Saxifraga clivorum Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2: 122. 1958.

Distribution: Sikkim; 4000–4600 m.

Saxifraga coarctata W.W.Sm., Rec. Bot. Surv. India 4: 194. 1911. *S. humilis* Engl. & Irmsch.

Distribution: Jammu & Kashmir, Sikkim; 4500 m.

Saxifraga cordigera Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 68. 1858.

Distribution: Sikkim ; 4600 m.

Saxifraga diversifolia Wall. ex Ser., DC. Prodr. 4: 44. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 265c)**

Saxifraga dungbooi Engl. & Irmsch., Bot. Jahrb. Syst. 50 (5): 39. 1914.

Distribution: Sikkim; 3500–4570 m.

Saxifraga duthiei Gand., Bull. Soc. Bot. France 46: 419. 1899.

Distribution: Jammu & Kashmir.

Saxifraga elliptica Engl. & Irmsch., Bot. Jahrb. Syst. 48(3–4): 585. 1912.

Distribution: Sikkim; 3500–4570 m.

Saxifraga engleriana Harry Sm., Repert. Spec. Nov. Regni Veg. 20: 16. 1924.

Distribution: Sikkim; 3500–4570 m.

Saxifraga filicaulis Wall. ex Ser., DC. Prodr. 4: 46. 1830.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 266)**

Saxifraga fimbriata Wall., Numer. List n. 443. 1829.

Distribution: Himachal Pradesh; 2000–3000 m.

Saxifraga flagellaris Willd., Rev. Saxi. 25. t. 6. 1810.

Distribution: Jammu & Kashmir, Himachal Pradesh, Sikkim, Uttarakhand; 2000–3000 m.

Saxifraga flagellaris Willd. subsp. **crassiflagellata** Hutton, Sv. Bot. Tidskr. 58(1): 96. 1964.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Saxifraga flagellaris Willd. subsp. **komarovii** Hultén, Sv. Bot. Tidskr 58(1): 97. 1964.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; Upto 3800 m.

Saxifraga flagellaris Willd. subsp. **mucronulata** (Royle) Engl. & Irmsch., Sv. Bot. Tidskr 58(1): 97. 1964. *S. stenophylla* Royle

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; Upto 4200 m.

Saxifraga georgei J. Anthony, Notes Roy. Bot. Gard. Edinburgh 18: 33. 1933.

Distribution: Sikkim; 3500–4570 m.

Saxifraga glabricaulis Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2(9): 241–242, f. 7, pl. 18A. 1960.

Distribution: Jammu & Kashmir, Sikkim.

Saxifraga granulifera Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2(9): 259–260, pl. 21B. 1960.

Distribution: Sikkim, Uttarakhand; 3500–4570 m.

Saxifraga hemisphaerica Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 62. 1857. Distribution: Sikkim, Uttarakhand; 4200–4880 m.

Saxifraga hirculus L., Sp. Pl. 402. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m. **(Plate 267)**

Saxifraga hirculus L. subsp. **alpina** (Engl.) Á.Löve, Taxon 19: 300. 1970. *S. hirculus* L. var. *alpina* Engl.

Distribution: Jammu & Kashmir, Uttarakhand; 4000–4500 m.

Saxifraga hirculoides Decne., Voy. Inde Bot. 4: 67, pl. 78. 1835.

Distribution: Jammu & Kashmir, Uttarakhand; 3500–4500 m.

- Saxifraga hispidula** D. Don, Trans. Linn. Soc. London 13: 380. 1822.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 3600–4600 m.
- Saxifraga hookeri** Engl. & Irmsch., Bot. Jahrb. Syst. 48(3–4): 582. 1912.
Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 3000–4500 m.
- Saxifraga inconspicua** W.W.Sm., Rec. Bot. Surv. India iv. 194. 1911.
Distribution: Sikkim; 4200–5000 m.
- Saxifraga jacquemontiana** Decne., Jacq. Voy. Bot. 4: 68. t. 78. f.2. 1835.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4500 m. **(Plate 268a)**
- Saxifraga kinchingingae** Engl., Bot. Jahrb. Syst. 48(3–4): 570. 1912.
Distribution: Sikkim; 4100 m.
- Saxifraga kingiana** Engl. & Irmsch., Bot. Jahrb. Syst. 48(3–4): 610. 1913.
Distribution: Sikkim; 4000–4600 m.
- Saxifraga komarovii** Losinsk., Fl. URSS ix. 162, 486. 1939.
Distribution: Jammu & Kashmir.
- Saxifraga kumaunensis** Engl., Pflanzenz. (Engler) Saxifagac. Saxifraga, 573. 1919.
Distribution: Uttarakhand; 3600 m.
- Saxifraga latiflora** Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 71. 1857.
Distribution: Sikkim; 3500–4570 m.
- Saxifraga lilacina** Duthie, Gard. Chron. III. (1): 290. 1904.
Distribution: Jammu & Kashmir, Uttarakhand.
- Saxifraga llonakhensis** W.W.Sm., Rec. Bot. Surv. India iv. 192. 1911.
Distribution: Sikkim; 3700–5000 m.
- Saxifraga lychnitis** Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 68. 1858.
Distribution: Sikkim, Uttarakhand; 4300–5500 m.
- Saxifraga meeboldii** Engl. & Irmsch., Bot. Jahrb. Syst. 48(3–4): 609. 1912.
Distribution: Jammu & Kashmir.
- Saxifraga melanocentra** Franch., J. Bot. (Morot) 10(16): 263. 1896.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4900 m.
- Saxifraga microphylla** Royle ex Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 72. 1858.
Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 4300–5500 m.
- Saxifraga minutissima** D.S.Rawat, Edinburgh J. Bot. 69 (2): 211–217. 2012.
Distribution: Uttarakhand; 4600–4800 m.
- Saxifraga montana** (Small) Fedde, Bot. Jahresber. 33, pt. 1: 613. 1906.
Distribution: Jammu & Kashmir.

Saxifraga moorcroftiana (Ser.) Wall. ex Strenb., Rev. Saxifrag. 28, pl. 24. 1831.
S. diversifolia Wall. & Ser. var. *moorcroftiana* Ser.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m.

Saxifraga mucronulata Royle, Ill. Bot. Himal. Mts. 1: 227. 1835.

Distribution: Sikkim, Uttarakhand; 4500–5200 m. (Plate 268b)

Saxifraga mucronulatoides J.T.Pan, Acta Phytotax. Sin. 29: 23. 1991.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 3500–4570 m.

Saxifraga nakaoui Kitam., Faun. & Fl. Nepal Himal. I: 144. 1955.

Distribution: Uttarakhand; 3000–5000 m.

Saxifraga nigroglandulifera N.P.Balakr., J. Bombay Nat. Hist. Soc. 67. 59. 1970.

Distribution: Sikkim; 4200–4700 m.

Saxifraga odontophylla Wall, Numer. List n. 454, partim. 1829.

Distribution: Himachal Pradesh.

Saxifraga oppositifolia L., Sp. Pl. 1: 402. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Saxifraga pallida Wall. ex Ser., DC. Prodr. 4: 38. 1830.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3200–4800 m.

Saxifraga parnassifolia D.Don, Trans. Linn. Soc. London 13: 405. 1821.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m. (Plate 269a)

Saxifraga perpusilla Hook.f. & Thomson, J. Linn. Soc., Bot. 2: 72. 1858.

Distribution: Sikkim; 3500–4570 m.

Saxifraga pilifera Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 66. 1857.

Distribution: Sikkim; 3500–4570 m.

Saxifraga pluviarum W.W.Sm., Rec. Bot. Surv. India iv. 368. 1913.

Distribution: Sikkim; 3500–4570 m.

Saxifraga poluniniana Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2: 114. 1958.

Distribution: Uttarakhand; 3200–3500 m.

Saxifraga pulvinaria Harry Sm., Bull. Brit. Mus. Nat. Hist. 2(4): 105. 1958.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3800 m.

Saxifraga punctulata Engl., Bot. Jahrb. Syst. 48(3–4): 601. 1912.

Distribution: Sikkim; 4600–4900 m.

Saxifraga ramulosa Wall., Numer. List n. 446. 1829.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 4500–5500 m.

- Saxifraga roylei** Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2: 95. 1958.
Distribution: Uttarakhand; 3800 m.
- Saxifraga rubriflora** Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2: 229. 1960.
Distribution: Sikkim; 3500–4570 m.
- Saxifraga saginoides** Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 68. 1858.
Distribution: Sikkim, Uttarakhand; 4000–5500 m.
- Saxifraga serrula** Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2: 252. 1960.
Distribution: Sikkim; 2800–3800 m.
- Saxifraga sibirica** L., Syst. Nat., ed. 10. 2: 1027. 1759.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2000–3500 m.
- Saxifraga sikkimensis** Engl., Bot. Jahrb. Syst. 48: 573. 1912.
Distribution: Sikkim; 3500–4570 m.
- Saxifraga sinomontana** J.T.Pan & Gornall, Novon 10(4): 377. 2000.
Distribution: Sikkim; 4100–5600 m.
- Saxifraga sphaeradena** Harry Sm., Bull. Brit. Mus. Nat. Hist. Bot. 2: 235. 1960.
Distribution: Sikkim; 400–5100 m.
- Saxifraga stella-aurea** Hook.f. & Thomson, J. Linn. Soc., Bot. 2: 72. 1858.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 3000–5000 m.
- Saxifraga stenophylla** Royle, Ill. Bot. Himal. Mts. 227, pl. 50, f. 1. 1835.
Distribution: Jammu & Kashmir, Uttarakhand.
- Saxifraga stenophylla** Royle subsp. **hoffmeisteri** H.Hara, Enum. Fl. Pl. Nepal 2: 155. 1979.
Distribution: Jammu & Kashmir, Uttarakhand.
- Saxifraga stolonifera** Curtis, Philos. Trans. 64(1): 308, t. 2541. 1774.
Distribution: Sikkim; 400–3000 m.
- Saxifraga stoltitzkae** Duthie ex Engl. & Irmsch., Pflanzenr. Saxifragac.–Saxifraga 569. 1919.
Distribution: Uttarakhand; 4500 m.
- Saxifraga strigosa** Wall. ex Ser., Prodr. 4: 41, descr. 1830.
Distribution: Sikkim, Uttarakhand; 3500–4570 m.
- Saxifraga subsessiliflora** Engl. & Irmsch., Pflanzenr. Saxifragac.–Saxifraga 573. 1919. Distribution: Sikkim; 3500–4570 m.
- Saxifraga subspathulata** Engl. & Irmsch., Bot. Jahrb. Syst. 48(3–4): 584. 1912.
Distribution: Sikkim; 3500–4570 m.
- Saxifraga tangutica** Engl., Bull. Acad. Imp. Sci. Saint–Petersbourg 29(1): 114. 1883.
Distribution: Jammu & Kashmir, Sikkim.
- Saxifraga tentaculata** C.E.C.Fisch., Bull. Misc. Inform. Kew 1940(7): 295. 1940.
Distribution: Sikkim; 4500–4900 m.

Saxifraga tsangchanensis Franch., Pl. Delavay. 233, pl. 51a. 1890.

Distribution: Jammu & Kashmir.

Saxifraga umbellulata Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 71. 1858.

Distribution: Sikkim; 3500–4570 m.

Saxifraga viscidula Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 2: 69. 1857.

Distribution: Sikkim; 3500–4570 m.

Saxifraga wallichiana Sternb., Rev. Saxifrag. 2: 21, pl. 22. 1831.

Distribution: Sikkim; 3600–4600 m.

(Plate 269c)

Tiarella L.

Tiarella polyphylla D.Don, Prodr. Fl. Nep. 210. 1825.

Distribution: Arunachal Pradesh, Sikkim; 2000–4000 m.

(Plate 269b)

SCHISANDRACEAE

(3 genera; 8 taxa)

Euptelea Siebold & Zucc.

Euptelea pleiosperma Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 7: 243. 1864.

Distribution: Arunachal Pradesh; 1500–2000 m.

Kadsura Juss.

Kadsura heteroclita (Roxb.) Craib, Fl. Siam. 1: 28. 1925. *Uvaria heteroclita* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 1600–1800 m.

Schisandra Michx.

Schisandra grandiflora (Wall.) Hook.f. & Thomson, Fl. Brit. India 1:44. 1872.

Kadsura grandiflora Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2800–3200 m.

Schisandra incarnata Stapf., Bot. Mag. 152: t. 9146. 1928.

Distribution: Arunachal Pradesh; 3600 m.

Schisandra neglecta A.C.Sm., Sargentia 7: 127. 1947.

Distribution: Arunachal Pradesh, Sikkim; 1300–1600 m.

Schisandra plena A.C.Sm., Sargentia 7: 154. 1947.

Distribution: Arunachal Pradesh; 600–1500 m.

Schisandra propinqua (Wall.) Baill., Hist. Pl. 1: 148. 1868. *Kadsura propinqua* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Schisandra rubriflora Rehder & E.H.Wilson, Pl. Wilson. 1: 412. 1913.

Distribution: Arunachal Pradesh; 1800–2600m.

SCROPHULARIACEAE

(53 genera; 300 taxa)

Adenosma R.Br.

Adenosma indianum (Lour.) Merr., Trans. Amer. Philos. Soc. n.s. 24(2): 351. 1935.
Manulea indiana Lour.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Alectra Thunb.

Alectra arvensis (Benth.) Merr., Philipp. J. Sci. 12(2): 109. 1917. *Glossostylis arvensis* Benth., *Alectra indica* Benth.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1900 m.

Alectra sessiliflora (Vahl) Kuntze, Revis. Gen. Pl. 2: 458. 1891. *Gerardia sessiliflora* Vahl

Distribution: Uttarakhand; 700–2100 m.

Antirrhinum L.

Antirrhinum majus L., Sp. Pl. 617. 1753.

Distribution: Uttarakhand; 2000 m.

Bacopa Aubl.

Bacopa floribunda (R.Br.) Wettst., Nat. Pflanzenfam. 4(3b): 77. 1891. *Herpestis floribunda* R.Br.

Distribution: Uttarakhand.

Bacopa hamiltoniana (Benth.) Wettst., Nat. Pflanzenfam. 4(3b): 77. 1891. *Herpestis hamiltoniana* Benth.

Distribution: Himachal Pradesh, Uttarakhand.

Bacopa monnieri (L.) Wettst., Nat. Pflanzenfam. 4(3b): 77. 1891. *Lysimachia monnieri* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 1200 m.

Bartsia L.

Bartsia odontites (L.) Huds., Fl. Angl. (Hudson) (ed. 2) 1: 268. 1778. *Euphrasia odontites* L.

Distribution: Jammu & Kashmir.

Brandisia Hook.f. & Thomson

Brandisia rosea W.W.Sm., Notes Roy. Bot. Gard. Edinburgh 10: 10. 1917.

Distribution: Arunachal Pradesh.

Buchnera Benth.

Buchnera hispida Buch.–Ham. ex D.Don, Prodr. Fl. Nepal. 91. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Calceolaria L.**Calceolaria chelidonioides** Kunth, Nov. Gen. Sp. 2: 378. 1818.

Distribution: Uttarakhand.

Calceolaria tripartita Ruiz & Pav., Fl. Peruv. 1: 14. 1798.

Distribution: Sikkim, Uttarakhand; 1980–5000 m.

(Plate 270a)

Calorhabdos Benth.**Calorhabdos brunoniana** Benth., Scroph. Ind. 44. 1835.

Distribution: Sikkim; 2000–3000 m.

Centranthera R.Br.**Centranthera cochinchinensis** (Lour.) Merr., Trans. Amer. Philos. Soc. n.s., 24(2): 353. 1935. *Digitalis cochinchinensis* Lour.

Distribution: Uttarakhand; 1500 m.

Centranthera grandiflora Benth., Scroph. Ind. 50. 1835.

Distribution: Arunachal Pradesh, Sikkim; 200–500 m.

Centranthera indica Gamble, Fl. Madras 971. 1924.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Centranthera nepalensis D.Don, Prodr. Fl. Nep. 88. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Cymbalaria Hill**Cymbalaria muralis** P.Gaertn., B.Mey. & Scherb., Oekon. Fl. Wetterau 2: 397. 1800.

Distribution: Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 2100 m.

Digitalis L.**Digitalis lanata** Ehrh., Beitr. Naturk. 7: 152. 1792.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Digitalis purpurea L., Sp. Pl. 621.1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dopatrium Buch.–Ham. ex Benth.**Dopatrium junceum** (Roxb.) Buch.–Ham. ex Benth., Edwards's Bot. Reg. 21: t. 1770 [4]. 1835. *Gratiola juncea* Roxb.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–2000 m.

Ellisiophyllum Maxim.**Ellisiophyllum pinnatum** (Wall. ex Benth.) Makino, Bot. Mag. Tokyo 20: 91. 1906. *Ourisia pinnata* Wall. ex Benth.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1676–3050 m.

Erythranthe Spach

Erythranthe cardinalis Spach, Hist. Nat. Vég. 9: 313. 1840.

Distribution: Uttarakhand.

Euphrasia L.

Euphrasia alba Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 107. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, West Bengal (Darjeeling).

Euphrasia aristulata Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 110. 1943.

Distribution: Jammu & Kashmir, Uttarakhand.

Euphrasia bhutanica Pugsley, J. Bot. 74: 280. 1936.

Distribution: Sikkim.

(Plate 270b)

Euphrasia chumbica R.R.Mill, Edinburgh J. Bot. 57: 415. 2000.

Distribution: Sikkim; 3353–3660 m.

Euphrasia densiflora Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 112. 1943.

Distribution: Jammu & Kashmir, Uttarakhand.

Euphrasia flabellata Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 112. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4000 m.

Euphrasia foliosa Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 109. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Euphrasia himalayica Wettst., Monogr. Euphrasia 180. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3850 m.

(Plate 352b)

Euphrasia incisa Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 103. 1943.

Distribution: Jammu & Kashmir.

Euphrasia jaeschkei Wettst., Monogr. Euphrasia 80, pl. 11, f. 5. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Euphrasia kashmiriana Pugsley, J. Bot. 74: 283. 1936.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Euphrasia kurramensis Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 104. 1943.

Distribution: Jammu & Kashmir, Uttarakhand.

Euphrasia laxa Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 106. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Euphrasia melanosticta R.R.Mill, Edinburgh J. Bot. 57: 417. 2000.

Distribution: Sikkim.

Euphrasia multiflora Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 105. 1943.

Distribution: Himachal Pradesh.

Euphrasia officinalis L., Sp. Pl. 604. 1753.

Distribution: Himachal Pradesh.

Euphrasia paucifolia Wettst., Monogr. Euphrasia 198. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4250 m.

Euphrasia pectinata Ten., Fl. Napol. 1: 36. 1811.

Distribution: Jammu & Kashmir, Uttarakhand; 4000 m.

Euphrasia platyphylla Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 102. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Euphrasia regelii Wettst., Monogr. Euphrasia 81, pl. 3, f. 111–119; pl. 11, f. 6. 1896.

Distribution: Jammu & Kashmir.

Euphrasia remota Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 110. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Euphrasia schlagintweitii Wettst., Monogr. Euphrasia 181. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Euphrasia simplex D. Don, Prodr. Fl. Nepal. 95. 1825.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m.

Hemiphragma Wall.

Hemiphragma heterophyllum Wall., Trans. Linn. Soc. London 13: 612. 1822.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m. **(Plate 271a&b)**

Kashmiria D.Y.Hong

Kashmiria himalaica (Hook.f.) D.Y.Hong, Bot. Not. 133(4): 565. 1980. *Falconeria himalaica* Hook.f.

Distribution: Uttarakhand.

Kickxia Dumort.

Kickxia cabulica (Benth.) D.A.Sutton, Rev. Antirrh. 196. 1988. *Linaria cabulica* Benth.

Distribution: Jammu & Kashmir.

Kickxia incana (Wall.) Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 59. 1943.

Linaria incana Wall.

Distribution: Himachal Pradesh.

Kickxia subsessilis Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 60. 1943.

Distribution: Jammu & Kashmir.

Lagotis Gaertn.

Lagotis cashmeriana Rupr., Sert. Tianschan. 64. 1869.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Lagotis clarkei Hook.f., Fl. Brit. India 4 (12): 559. 1885.

Distribution: Sikkim, 3800–4870 m.

Lagotis crassifolia Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65(2): 63, pl. 2. 1896.

Distribution: Sikkim; 4575–4880 m.

Lagotis globosa Hook.f., Fl. Brit. India 4: 558. 1885.

Distribution: Jammu & Kashmir.

Lagotis kunawurensis Rupr., Sert. Tianschan. 64. 1869.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2700–5600 m.

Lagotis kunawurensis Rupr. var. **sikkimensis** Sert. Tianschan. 64. 1869.

Distribution: Sikkim, Uttarakhand; 2700–4900 m.

Lagotis minor (Willd.) Standl., Publ. Field Mus. Nat. Hist., Bot. Ser. 8: 325. 1931. *Gymnandra minor* Willd.

Distribution: Uttarakhand.

Lancea Hook.f. & Thomson

Lancea tibetica Hook.f. & Thomson, Hooker's J. Bot. Kew Gard. Misc. 9: 244. 1857.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 4000–4500 m. (Plate 271c)

Lathraea L.

Lathraea squamaria L., Sp. Pl. 606. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 275b)

Leptorhabdos Schrenk ex Fisch. & C.A. Mey.

Leptorhabdos parviflora (Benth.) Benth., Prodr. 10: 510. 1846. *Gerardia parviflora* Benth.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3800 m.

Limnophila R.Br.

Limnophila aromatica (Lam.) Merr., Interpr. Herb. Amboin. 466. 1917. *Ambulia aromatica* Lam.

Distribution: West Bengal (Darjeeling); 600–1980 m.

Limnophila chinensis (Osbeck) Merr., Amer. J. Bot. 3: 581. 1916. *Columnea chinensis* Osbeck

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1000 m.

Limnophila connata (Buch.–Ham. ex D. Don) Hand.–Mazz., Symb. Sin. 7: 837. 1936. *Cybbanthera connata* Buch.–Ham. ex D. Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1500–2000 m.

Limmophila indica (L.) Druce, Rep. Exch. Club. Brit. Is. 3: 420. 1914. *Hottonia indica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Limmophila micrantha Benth., Prodr. 10: 387. 1846.

Distribution: West Bengal (Darjeeling); 150 m.

Limmophila polyantha Kurz ex Hook.f., Fl. Brit. India 4: 268. 1884.

Distribution: Sikkim, West Bengal (Darjeeling); 1000 m.

Limmophila repens (Benth.) Benth., Prodr. 10: 387. 1846. *Stemodia repens* Benth.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Limmophila roxburghii G. Don, Gen. Hist. 4: 543. 1837.

Distribution: Arunachal Pradesh.

Limmophila rugosa (Roth) Merr., Interpr. Herb. Amboin. 466. 1917. *Herpestis rugosa* Roth

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Limmophila sessiliflora (Vahl) Blume, Bijdr. Fl. Ned. Ind. 14: 749. 1826. *Hottonia sessiliflora* Vahl

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Limosella L.

Limosella aquatica L., Sp. Pl. 631. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Linaria Mill.

Linaria dalmatica (L.) Mill., Gard. Dict. (ed. 8) 13. 1768. *Antirrhinum dalmaticum* L.

Distribution: Jammu & Kashmir.

Linaria incarnata Spreng, Syst. Veg. 2: 796. 1825.

Distribution: Uttarakhand.

Linaria maroccana Hook.f., Bot. Mag. 98: pl. 5983. 1872.

Distribution: Arunachal Pradesh.

Lindenbergia Lehm.

Lindenbergia grandiflora (Buch.–Ham. ex D. Don) Benth., Scroph. Ind. 22. 1835. *Stemodia grandiflora* Buch.–Ham. ex D. Don

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–2135 m.

Lindenbergia griffithii Hook.f., Fl. Brit. India 4: 262. 1884.

Distribution: Arunachal Pradesh, Himachal Pradesh; 1600–2500 m.

- Lindenbergia hookeri** C.B. Clarke ex Hook.f., Fl. Brit. India 4: 261. 1884.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.
- Lindenbergia indica** (L.) Vatke, Oesterr. Bot. Zeitschr. 25: 10. 1875. *Dodartia indica* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1800–4000 m.
- Lindenbergia macrostachya** Benth., Scroph. Ind. 22. 1835.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.
- Lindenbergia muraria** (Roxburgh ex D. Don) Brühl, J. Dept. Sci. Calcutta Univ. 2: 26. 1920. *Stemodia muraria* Roxburgh ex D. Don
Distribution: Jammu & Kashmir, Sikkim, West Bengal (Darjeeling); 200–2550 m.
- Lindenbergia philippensis** (Cham. & Schltdl.) Benth., Scroph. Ind. 22. 1835. *Stemodia philippensis* Cham. & Schltdl.
Distribution: Sikkim, Uttarakhand; 2000 m.
- Lindenbergia polyantha** Royle ex Benth., Scroph. Ind. 22. 1835.
Distribution: Jammu & Kashmir, Uttarakhand.
- Lindenbergia ruderalis** Kuntze., Revis. Gen. Pl. 2: 462. 1891.
Distribution: Himachal Pradesh.
- Lindenbergia titensis** Sikdar & Maiti., J. Bombay Nat. Hist. Soc. 77: 121. 1980.
Distribution: West Bengal (Darjeeling); 400 m.
- Lindernia** All.
- Lindernia anagallis** (Burm.f.) Pennell, J. Arnold Arbor. 24: 252. 1943. *Ruellia anagallis* Burm.f.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1600 m.
- Lindernia antipoda** (L.) Alston, Trim., Handb. Fl. Ceylon 6. suppl. 214. 1931. *Ruellia antipoda* L.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1000 m.
- Lindernia ciliata** (Colsm.) Pennell, Brittonia 2: 182. 1936. *Gratiola ciliata* Colsm.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1000 m.
- Lindernia crustacea** (L.) F. Muell., Syst. Cens. Austral. Pl. 1: 97. 1882. *Capraria crustacea* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1000 m.
- Lindernia hookeri** Wettst., Nat. Pflanzenfam. 4(3b): 80. 1891.
Distribution: Uttarakhand, West Bengal (Darjeeling); ca 500 m.
- Lindernia hookeri** Wettst. subsp. **kumaunensis** Pennell, Scrophulariaceae Western Himalayas. 30. 1943.
Distribution: Uttarakhand.

Lindernia micrantha D.Don, Prodr. Fl. Nepal. 85. 1825.

Distribution: Uttarakhand.

Lindernia mollis (Benth.) Wettst., Nat. Pflanzenfam. 4(3b): 79. 1891. *Vandellia mollis* Benth.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1200 m.

Lindernia multiflora (Roxb.) Mukerjee, J. Indian Bot. Soc. 24: 131. 1945. *Torenia multiflora* Roxb.

Distribution: Uttarakhand.

Lindernia nummulariifolia (D.Don) Wettst., Nat. Pflanzenfam. 4(3b): 80. 1891. *Vandellia nummularifolia* D.Don.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2000 m.

Lindernia parviflora (Roxb.) Haines., Bot. Bihar Orissa 635. 1922. *Gratiola parviflora* Roxb.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Lindernia procumbens (Krock.) Philcox., Taxon 14: 30. 1965. *Anagalloides procumbens* Krock.

Distribution: Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling); 300–1250 m.

Lindernia pusilla (Willd.) Bold., Zakfl. Java 165. 1916. *Gratiola pusilla* Willd.

Distribution: Sikkim; upto 1200 m.

Lindernia ruelloides (Colms.) Pennell, Brittonia 2: 1182. 1936. *Gratiola ruelloides* Colsm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); up to 2000 m.

Lindernia viscosa (Hornem.) Merr., Sp. Blancoan. 14. 1918. *Gratiola viscosa* Hornem.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1000 m.

Mazus Lour.

Mazus celsiodes Hand.–Mazz., Symb. Sin. 7(4): 833–834, pl. 25, f. 9. 1936.

Distribution: Arunachal Pradesh; 1600 m.

Mazus dentatus Wall., Numer. List 3914. 1831..

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1200 m.

Mazus goodenifolius Pennell., J. Arnold Arbor. 24: 245. 1943.

Distribution: Jammu & Kashmir.

Mazus harmandii Banati, Bull. Herb. Boissier II, 8: 533. 1908.

Distribution: Himachal Pradesh.

Mazus pumilus (Burm.f.) Steenis., Nova Guinea n.s., 9: 31. 1958. *Lobelia pumila* Burm.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Mazus pumilus (Burm.f.) Steenis. var. **delavayi** (Bonati) T.L.Chin ex D.Y. Hong, Novon 6(4): 374. 1996. *M. delavayi* Bonati.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Mazus surculosus D.Don, Prodr. Fl. Nep. 87. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m. (Plate 275c)

Mecardonia Ruiz & Pav.

Mecardonia procumbens (Mill.) Small, Fl. S.E. U.S. 1065. 1903. *Erinus procumbens* Mill.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Melasma P.J.Bergius

Melasma avense Hand–Mazz., Symb. Sin. 7: 843. 1936.

Distribution: Arunachal Pradesh, Sikkim; 1500–2500 m.

Microcarpaea R. Br.

Microcarpaea minima (K.D.Koenig ex Retz.) Merr., Philipp. J. Sci. 7(2): 100. 1912. *Paederota minima* K.D. Koenig ex Retz.

Distribution: West Bengal (Darjeeling).

Mimulus L.

Mimulus bhutanicus T.Yamaz., J. Jap. Bot. 68: 23. 1993.

Distribution: Sikkim, West Bengal (Darjeeling); 2800–3800 m.

Mimulus strictus Benth., Numer. List 3918. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Mimulus tenellus Nutt. ex A.Gray var. **nepalensis** (Benth.) Tsoong, Fl. Reipubl. Popularis Sin. 67(2): 171. 1979. *M. nepalensis* Benth.

Distribution: Arunachal Pradesh. (Plate 272a)

Mimulus tenellus Nutt. ex A.Gray var. **procerus** (A.L.Grant) Hand.–Mazz., Symb. Sin. 7(4): 832–833. 1936. *M. nepalensis* Benth. var. *procerus* A.L. Grant.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Misopates Raf.

Misopates orontium (L.) Raf., Autik. Bot. 158. 1840. *Antirrhinum orontium* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Nanorrhinum Betsche

Nanorrhinum ramosissimum (Wall.) Betsche, Courier Forschungsinst. Senckenberg 71: 132. 1984. *Linaria ramosissima* Wall.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 1500 m.

Neopicrorhiza D.Y. Hong

Neopicrorhiza scrophulariiflora (Pennell) D.Y.Hong, Opera Bot. 75: 56. 1984. *Picrorhiza scrophulariiflora* Pennell

Distribution: Arunachal Pradesh, Sikkim; 3500–4880 m.

Oreosolen Hook.f.

Oreosolen watti Hook.f., Fl. Brit. India 4(11): 319. 1884.

Distribution: Sikkim; 4000–6000 m.

Oreosolen williamsii T.Yamaz., J. Jap. Bot. 46: 245. 1971.

Distribution: Sikkim; 4570–4720 m.

Paulownia Nakai

Paulownia tomentosa Steud., Nomencl. Bot. ed. 2, 2: 278. 1841.

Distribution: Jammu & Kashmir, Uttarakhand.

Pedicularis L.

Pedicularis alaschanica Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 24(1): 59–60. 1877.

Distribution: Sikkim; 2590–3261 m.

Pedicularis albiflora Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 273. 1889.

Distribution: Sikkim; 4265–4570 m.

Pedicularis artiae R.Kr.Singh, Kholia & Sudhakar, Kew Bull. 71(3)–36: 1. 2016.

Distribution: Sikkim; 2300 m.

Pedicularis bella Hook.f., Fl. Brit. India 4(11): 313. 1884.

Distribution: Sikkim; 4420–5180 m.

Pedicularis bicornuta Klotzsch, Bot. Ergebn. Reise Waldemar 109. 1862.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (**Plate 272b**)

Pedicularis bifida Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 144. 1943.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–5000 m.

Pedicularis bipinnatifida (Pennell) R.R.Mill, Edinburgh J. Bot. 67: 186. 2010. *P. pectinata* subsp. *bipinnatifida* Pennell

Distribution: Jammu & Kashmir.

Pedicularis brevifolia D.Don, Prodr. Fl. Nepal. 94. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand. (**Plate 276a**)

Pedicularis brevirostris Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 142. 1943.
Distribution: Jammu & Kashmir.

Pedicularis brunoniana Wall. ex Pennell, Acad. Nat. Sci. Philad Monogr. 5: 129. 1943.

Distribution: Himachal Pradesh.

Pedicularis canescens P.C.Tsoong, Bull. Brit. Mus. (Nat. Hist.) Bot. 2: 16. 1955.
Distribution: Jammu & Kashmir, Uttarakhand.

Pedicularis carnosa Wall., Pl. Asiat. Rar. 2: 44. 1831.

Distribution: Sikkim; 1300–3050 m.

(Plate 272c)

Pedicularis cephalanthoides P.C. Tsoong, Kew Bull. 1954: 447. 1954.

Distribution: Arunachal Pradesh.

Pedicularis cheilanthifolia Schrenk, Enum. Pl. Nov. 2: 19. 1842.

Distribution: Jammu & Kashmir, Uttarakhand.

Pedicularis cheilanthifolia Schrenk var. **albida** (Pennell) P.C.Tsoong, Acta Phytotax. Sin. 33: 312 1955. *P. albida* Pennell

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pedicularis cheilanthifolia Schrenk var. **purpurea** (Pennell) Arti Garg, Taiwania 54: 270. 2009. *P. purpurea* Pennell

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pedicularis cheilanthifolia Schrenk subsp. **svenhedinii** (Paulsen) Tsoong, Fl. Reipubl. Popularis Sin. 68: 197 1963. *P. svenhedinii* Paulsen

Distribution: Himachal Pradesh.

Pedicularis chumbica Prain, J. Asiat. Soc. Bengal 58(2): 259. 1889.

Distribution: Sikkim; 3353–4573 m.

Pedicularis clarkei Hook.f., Fl. Brit. India 4(11): 310–311. 1884.

Distribution: Sikkim; 3600–4300 m.

(Plate 273b)

Pedicularis collata Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 266. 1889.

Distribution: Sikkim; 3000–4000 m.

Pedicularis confertiflora Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 258. 1889.

Distribution: Sikkim; 3400–4877 m.

Pedicularis cooperi P.C. Tsoong, Kew Bull. 9: 450. 1954.

Distribution: Sikkim, 4270 m.

Pedicularis curvipes Hook.f., Fl. Brit. India 4: 316. 1884.

Distribution: Sikkim, 2750–3050 m.

Pedicularis daltonii Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 270. 1889.

Distribution: Sikkim; 4420–4877 m.

Pedicularis denudata Hook.f., Fl. Brit. India 4: 309. 1884.

Distribution: Sikkim; 3660–4573 m.

- Pedicularis diffusa** Prain, J. Asiat. Soc. Bengal 62(1): 7, pl. 1. 1893.
Distribution: Sikkim; 3050–4573 m.
- Pedicularis dolichorrhiza** Schrenk, Enum. Pl. Nov. 2: 23. 1842.
Distribution: Jammu & Kashmir.
- Pedicularis elephantoides** Benth., Scroph. Ind. 23. 1835.
Distribution: Jammu & Kashmir.
- Pedicularis elwesii** Hook.f., Fl. Brit. India 4(11): 312. 1884.
Distribution: Sikkim; 3050–4877 m.
- Pedicularis excelsa** Hook.f., Fl. Brit. India 4(11): 311. 1884.
Distribution: Sikkim; 2600–3800 m.
- Pedicularis flagellaris** Benth., Prodr., 10: 581. 1846.
Distribution: Arunachal Pradesh, Sikkim. 2500–3500 m.
- Pedicularis flexuosa** Hook.f., Fl. Brit. India 4(11): 308. 1884.
Distribution: Sikkim; 2135–4270 m.
- Pedicularis fragilis** Prain ex Maxim, Bull. Acad. Petersb. 32: 582. 1888.
Distribution: Arunachal Pradesh.
- Pedicularis furfuracea** Wall. ex Benth., Scroph. Ind. 53–54. 1835.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2600–3960 m.
- Pedicularis gammieana** Prain, J. Asiat. Soc. Bengal 58(2): 260. 1889.
Distribution: Arunachal Pradesh, Sikkim; 3050–3350 m.
- Pedicularis garckeana** Prain ex Maxim, Bull. Acad. Imp. Sci. Saint–Petersbourg 32(4): 529. 1888.
Distribution: Sikkim.
- Pedicularis gibbera** Prain, J. Asiat. Soc. Bengal 58(2): 262. 1889.
Distribution: Arunachal Pradesh, Sikkim; 4270 m.
- Pedicularis globifera** Hook.f., Fl. Brit. India 4(11): 308. 1884.
Distribution: Sikkim; 3660–4570 m.
- Pedicularis gracilis** Wall. ex Benth., Scroph. Ind. 52. 1835.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–2500 m. **(Plate 273a)**
- Pedicularis gracilis** Wall. ex Benth. subsp. **macrocarpa** (Prain) Tsoong, Acta Phytotax. Sin. 3(3): 307. 1955. *P. gracilis* Wall. ex Benth. var. *macrocarpa* Prain
Distribution: Sikkim, West Bengal (Darjeeling); 2900–3600 m.
- Pedicularis gracilis** Wall. ex Benth. subsp. **stricta** (Prain) Tsoong, Fl. Reipubl. Popularis Sin. 68: 78, pl. 12, f. 1–3. 1963. *P. gracilis* Wall. ex Benth. f. *stricta* Prain
Distribution: Jammu & Kashmir, Sikkim, West Bengal (Darjeeling); 1800–4200 m.
- Pedicularis heydei** Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 258. 1889.
Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 4725–5325 m.

Pedicularis hoffmeisteri Klotzsch, Bot. Ergebn. Reise Waldemar 198. 1862.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pedicularis hookeriana Wall. ex Benn., Scroph. Ind. 53. 1835.

Distribution: Uttarakhand, Himachal Pradesh.

Pedicularis instar Prain ex Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg 32: 565. 1888.

Distribution: Sikkim; 3660–4200 m.

Pedicularis integrifolia Hook.f., Fl. Brit. India 4(11): 308. 1884.

Distribution: Sikkim; 3660–4877 m.

Pedicularis kashmiriana Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 137. 1943.

Distribution: Jammu & Kashmir.

Pedicularis kingii Prain, Bull. Acad. Imp. Sci. Saint-Pétersbourg 32: 602. 1888.

Distribution: Arunachal Pradesh, Sikkim.

Pedicularis klotzschii Hurus., J. Jap. Bot. 22: 184. 1948.

Distribution: Uttarakhand.

Pedicularis lachnoglossa Hook.f., Fl. Brit. India 4(11): 311. 1884.

Distribution: Sikkim, Himachal Pradesh; 4000–5000 m.

Pedicularis longiflora Rudolph, Mém. Acad. Imp. Sci. St. Pétersbourg Hist. Acad. 4: 345. 1811.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2500–5600 m. **(Plate 276b)**

Pedicularis longiflora Rudolph var. **tubiformis** (Klotzsch) P.C.Tsoong, Acta Phytotax. Sin. 3(3): 278, 318–319. 1955. *P. tubiformis* Klotzsch

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3650 m. **(Plate 275a)**

Pedicularis lyrata Prain ex Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 32(4): 606. 1888.

Distribution: Sikkim; 4270–4877 m.

Pedicularis megalantha D.Don, Prodr. Fl. Nepal. 94. 1825.

Distribution: Sikkim, Uttarakhand; 2300–5000 m.

Pedicularis melalimne R.R.Mill, Edinburgh J. Bot. 58: 71. 2001.

Distribution: Sikkim; 3195–4270 m.

Pedicularis microcalyx Hook.f., Fl. Brit. India 4(11): 315. 1884.

Distribution: Sikkim; 3353–4300 m.

Pedicularis mollis Wall. ex Benth., Scroph. Ind. 53. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2750–4270 m.

Pedicularis nepalensis Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 268. 1889.

Distribution: Sikkim; 3350–4725 m.

Pedicularis nodosa Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 119. 1943.

Distribution: Uttarakhand.

Pedicularis odontophora Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 275. 1889.

Distribution: Sikkim.

Pedicularis oederi Vahl, Fors. Dansk. Oek. Plantel. ed. 2: 580. 1806.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3600–5300 m.

Pedicularis oederi Vahl subsp. **branchyophylla** (Pennell) P.C.Tsoong, Acta Phytotax. Sin. 3(3): 274, 316. 1955. *P. branchyophylla* Pennell

Distribution: Sikkim; 4115–4870 m.

Pedicularis ophiocephala Maxim., Bull. Acad. Imp. Sci. Saint-Pétersbourg 32: 530, 1888.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pedicularis pantlingii Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 273. 1889.

Distribution: Sikkim; 2135–4270 m.

Pedicularis paradoxa T.Yamaz., J. Jap. Bot. 61: 299. 1986.

Distribution: Sikkim; 3600–4400 m.

Pedicularis pectinata Wall. ex Benn., Scroph. Ind. 52. 1835.

Distribution: Uttarakhand.

Pedicularis pennelliana P.C.Tsoong, Acta Phytotax. Sin. 3: 307. 1955.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Pedicularis platychila P.C.Tsoong, Acta Phytotax. Sin. 3: 301. 1955.

Distribution: Arunachal Pradesh.

Pedicularis polygaloides Hook.f., Fl. Brit. India 4(11): 317. 1884.

Distribution: Sikkim; 3800–4573 m.

Pedicularis porrecta Wall., Numer. List 423. 1829.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3300–5000 m. **(Plate 273c)**

Pedicularis punctata Decne., Voy. Inde 4: 117. 1843.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3800–4350 m. **(Plate 274a)**

Pedicularis pycnantha Boiss., Diagn. Ser. 1 : 12 : 45. 1853.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 1200–2500 m.

Pedicularis pyramidata Royle ex Benth., Scroph. Ind. 52. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Pedicularis regeliana Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 274. 1889.

Distribution: Sikkim; 3800–4570 m.

Pedicularis rex C.B. Clarke ex Maxim, Bull. Acad. Petersb. 32: 589. 1888.

Distribution: Arunachal Pradesh; 1800–2500 m.

Pedicularis rhinanthoides Schrenk, Enum. Pl. Nov. 1: 22. 1841.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2300–6000 m.

Pedicularis rhinanthoides Schrenk subsp. **labellata** (Jacquem.) Prain, J. Asiat. Soc. Bengal 58(2): 272. 1889. *P. labellata* Jacquem.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3000–3500 m.

Pedicularis robusta Hook.f., Fl. Brit. India 4(11): 306–307. 1884.

Distribution: Sikkim; 4270–5180 m.

Pedicularis roylei Maxim., Bull. Acad. Imp. Sci. Saint–Petersbourg 27(4): 517. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3700–5250 m.

Pedicularis schizorrhyncha Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 260. 1889.

Distribution: Sikkim; 3500–5000 m.

Pedicularis scullyana Prain ex Maxim., Bull. Acad. Imp. Sci. Saint–Petersbourg 32: 529. 1888.

Distribution: Sikkim; 3000–4000 m.

Pedicularis semenowii Regel, Bull. Soc. Imp. Naturalistes Moscou 41: 108. 1868.

Distribution: Jammu & Kashmir.

Pedicularis sikkimensis Bonati, Rec. Bot. Surv. India 4: 401. 1913.

Distribution: Sikkim; 3960–4115 m.

Pedicularis siphonantha D. Don, Prodr. Fl. Nepal. 65. 1825.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3200–4270 m. **(Plate 274c)**

Pedicularis stewartii Pennell, Acad. Nat. Sci. Philad. Monogr. 5: 135. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Pedicularis tantalorhyncha Franch. ex Bonati, Bull. Soc. Bot. France 56: 466–467. 1909.

Distribution: Sikkim; 3050–4880 m.

Pedicularis tenuicaulis Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 58(2): 259. 1889.

Distribution: Sikkim; 3353–3660 m.

Pedicularis tenuirostris Benth., Scroph. Ind. 52. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Pedicularis trichodonta T.Yamaz., J. Jap. Bot. 53: 325. 1978.

Distribution: Sikkim; 3660–4573 m.

Pedicularis trichoglossa Hook.f., Fl. Brit. India 4(11): 310. 1884.

Distribution: Uttarakhand, Sikkim; 3000–5000 m. (Plate 274b)

Pedicularis schizorrhyncha Prain, J. As. Soc. Bengal 58: 260. 1889.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4000–5000 m.

Pedicularis wallichii Bunge, Repert. Bot. Syst. 3: 415. 1844.

Distribution: Sikkim; 3600–5000 m.

Phtheirospermum Bunge ex Fisch. & C.A.Mey.

Phtheirospermum glandulosum Benth. ex Hook.f., Fl. Brit. India 4(11): 304. 1884.

Distribution: Uttarakhand.

Picria Lour.

Picria fel-terrae Lour., Fl. Cochinch. 393. 1790.

Distribution: West Bengal (Darjeeling).

Picrorhiza Royle ex Benth.

Picrorhiza kurrooa Royle, Ill. Bot. Himal. Mts. 291. 1836.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Picrorhiza tungnathii Pusalkar, Nordic J. Bot. 32(3): 311. 2013.

Distribution: Uttarakhand.

Russelia Jacq.

Russelia coccinea (L.) Wettst., Nat. Pflanzenfam. 4(3b): 63. 1891. *Scrophularia coccinea* L.

Distribution: Uttarakhand.

Russelia equisetiformis Schlttdl. & Cham., Linnaea 6: 377. 1831.

Distribution: Uttarakhand.

Scoparia L.

Scoparia dulcis L., Sp. Pl. 116. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–800 m.

Scrophularia L.

Scrophularia calycina Boiss., Fl. Orient. 4: 390. 1879.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4000 m.

Scrophularia decomposita Royle ex Benth., Scroph. Ind. 18. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Scrophularia dentata Royle ex Benth., Scroph. Ind. 19. 1835.

Distribution: Jammu & Kashmir, Himachal Pradesh, Uttarakhand.

Scrophularia edgeworthii Benth., Prodr. 10: 304. 1846.

Distribution: Himachal Pradesh, Uttarakhand.

(Plate 351b)

Scrophularia elatior Wall. ex Benth., Scroph. Ind. 18. 1835.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling);
1600–2200 m.

(Plate 351c)

Scrophularia himalensis Royle ex Benth., Scroph. Ind. 18. 1835.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Scrophularia koelzii Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 52. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Scrophularia nodosa L., Sp. Pl. 2: 619. 1753.

Distribution: Jammu & Kashmir.

Scrophularia obtusa Edgew. ex Hook.f., Fl. Brit. India 4: 254. 1883.

Distribution: Uttarakhand.

Scrophularia pauciflora Benth., Scroph. Ind. 17. 1835.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1800 m.

Scrophularia polyantha Royle ex Benth., Scroph. Ind. 18. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Scrophularia przewalskii Batalin, Trudy Imp. S.-Peterburgsk. Bot. Sada 13(2):
382–383. 1894.

Distribution: Sikkim, about 4600 m.

Scrophularia robusta Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 46. 1943.

Distribution: Jammu & Kashmir.

Scrophularia scabiosaefolia Benth., DC. Prodr. 10: 311. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Scrophularia stewartii Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 49. 1943.

Distribution: Jammu & Kashmir.

Scrophularia suffruticosa Pennell, Acad. Nat. Sci. Philad. Monogr. 5: 53. 1943.

Distribution: Himachal Pradesh.

Scrophularia urticaefolia Wall. ex Benth., Scroph. Ind. 18. 1835.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2000 m.

Scrophularia variegata Rchb. ex Nyman, Consp. Fl. Eur. 534. 1881.

Distribution: Uttarakhand.

Sopubia Buch.–Ham. ex D. Don

Sopubia delphinifolia G.Don, Gen. Hist. 4: 560. 1837.

Distribution: Uttarakhand.

Sopubia stricta G.Don, Gen. Hist. iv. 559.

Distribution: Sikkim, West Bengal (Darjeeling); 600 m.

Sopubia trifida Buch.–Ham. ex D.Don, Prodr. Fl. Nep. 88. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2500–3500 m.

Stemodia L.

Stemodia viscosa Roxb., Pl. Coromandel 2: 33. 1802.

Distribution: Uttarakhand.

Striga Lour.

Striga angustifolia (D.Don) C.J.Saldanha, Bull. Bot. Surv. India 5: 70. 1963.

Buchnera angustifolia D.Don.

Distribution: Jammu & Kashmir, Uttarakhand.

Striga asiatica (L.) Kuntze, Rev. Gen. Pl. 2: 466. 1891. *Buchnera asiatica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 100–500 m.

Striga densiflora (Benth.) Benth., Companion Bot. Mag. 1: 363. 1836. *Buchnera densiflora* Benth.

Distribution: Sikkim, West Bengal (Darjeeling); 450–600 m.

Striga gesnerioides (Willd.) Vatke, Oesterr. Bot. Z. 25: 11. 1875. *Buchnera gesnerioides* Willd.

Distribution: Uttarakhand.

Torenia L.

Torenia asiatica L., Sp. Pl. 619. 1753.

Distribution: Arunachal Pradesh, Sikkim; 1000–2000 m.

Torenia cordifolia Roxb., Pl. Coromandel 2: 52, pl. 161. 1798.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–2175 m.

Torenia diffusa Roxb., Fl. Ind. ed. 1832 3: 95. 1832.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1200 m.
(Plate 277a)

Torenia edentula Benth., Prodr. 10: 410. 1846.

Distribution: Sikkim; 1000 m.

Torenia fournieri Linden ex E.Fourn., Ill. Hort. 23: 129, t. 249. 1876.

Distribution: Uttarakhand.

Torenia indica C.J.Saldanha, Bull. Bot. Surv. India 8: 127. 1967.

Distribution: Uttarakhand.

Torenia thouarsii (Cham. & Schltdl.) Kuntze, Rev. Gen. Pl. 2: 468. 1891. *Nortenia thouarsii* Cham. & Schltdl.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 500–1500 m.

Torenia vagans Roxb., Fl. Ind. ed. 1832 3: 96. 1832.

Distribution: Arunachal Pradesh, Sikkim.

Torenia violacea (Azaolo ex Blanco) Pannell, J. Am. Arb. 24: 255. 1943. *Mimulus violaceus* Azaola ex Blanco

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–3500 m. **(Plate 277b)**

Verbascum L.

Verbascum blattaria L., Sp. Pl. 178. 1753.

Distribution: Jammu & Kashmir, Sikkim.

Verbascum chinense (L.) Santapau, Fl. Purandhar 90: 1. 1958. *Scrophularia chinense* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Verbascum erianthum Benth., Prodr. 10: 235. 1846.

Distribution: Jammu & Kashmir.

Verbascum thapsus L., Sp. Pl. 177. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–3300 m. **(Plate 278)**

Veronica L.

Veronica agrestis L., Sp. Pl. 13. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Veronica alpina L. subsp. **pumila** (All.) Dostál, Kvet. Èeske Social. Republ. 1303. 1950. *V. pumila* All.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Veronica anagallis-aquatica L., Sp. Pl. 12. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1800–3000 m.

Veronica anagalloides Guss., Pl. Rar. 5 1826.

Distribution: Jammu & Kashmir, Uttarakhand.

Veronica arvensis L., Sp. Pl. 13. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Veronica beccabunga L., Sp. Pl. 12. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Veronica beccabunga L. subsp. **muscosa** (Korsh.) Elenevsky, Bjull. Moskovsk. Obaè. Isp. Prir., Otd. Biol. 82: 153. 1977. *V. beccabunga* L. var. *muscosa* Korsh.

Distribution: Jammu & Kashmir.

Veronica biloba schreb. ex L., Mant. Pl. 2: 172. 1771.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–3350 m.

Veronica cachemirica Gand., Bull. Soc. Bot. France 66: 219. 1919.

Distribution: Jammu & Kashmir.

Veronica campylopoda Boiss., Diagn. Pl. Orient. 4: 80. 1844.

Distribution: Jammu & Kashmir.

Veronica cana Wall. ex Benth., Scroph. Ind. 45. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2743–4115 m.

Veronica capitata Royle ex Benth., Scroph. Ind. 45. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Veronica ciliata Fisch., Mém. Soc. Imp. Naturalistes Moscou 3: 56. 1812.

Distribution: Sikkim, Uttarakhand; 4000–5000 m. (Plate 279a)

Veronica ciliata Fisch. subsp. **cephaloides** (Pennell) D.Y. Hong, Acta Phytotax. Sin. 16(3): 24. 1978. *V. cephaloides* Pennell

Distribution: Sikkim, Jammu & Kashmir; 4000–4600m.

Veronica deltigera Wall. ex Benth., Scroph. Ind. 45. 1835.

Distribution: Himachal Pradesh, Sikkim; 2440–4150 m.

Veronica hederifolia L., Sp. Pl. 13. 1753.

Distribution: Sikkim.

Veronica himalensis D. Don, Prodr. Fl. Nepal. 92–93. 1825.

Distribution: Sikkim, Uttarakhand; 2750–4270 m. (Plate 279b)

Veronica hirta Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 84. 1943.

Distribution: Himachal Pradesh .

Veronica javanica Blume, Bijdr. Fl. Ned. Ind. 14: 742. 1826.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2000 m.

Veronica koelzii Pennell, Acad. Nat. Sci. Philad. Monogr. 5: 82. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Veronica lanosa Royle ex Benth., Scroph. Ind. 45. 1835.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Veronica lanuginosa Benth. ex Hook.f., Fl. Brit. India 4(11): 293. 1884.

Distribution: Sikkim; 4530–5500 m.

Veronica laxa Benth., Scroph. Ind. 45. 1835.

Distribution: Himachal Pradesh, Uttarakhand.

Veronica macrostemon Bunge, Fl. Altaic. 1: 35. 1829.

Distribution: Jammu & Kashmir, Uttarakhand.

Veronica magna M.A.Fisch., Pl. Syst. Evol. 128: 293. 1977.

Distribution: Jammu & Kashmir, Uttarakhand.

Veronica melissifolia Poir., Encycl. 8: 526. 1808.

Distribution: Himachal Pradesh.

Veronica minima Echeand., Fl. Caesaraug. 21. 1861.

Distribution: Himachal Pradesh.

Veronica persica Poir., Encycl. 8: 542. 1808.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. (Plate 276c)

Veronica polita Fr., Novit. Fl. Svec. 63. 1819.

Distribution: Uttarakhand.

Veronica pusilla Kotschy & Boiss., Pl. Pers. Austr., ed. R.F. Hohenacker 717. 1845.

Distribution: Jammu & Kashmir.

Veronica robusta (Prain) T. Yamaz., J. Jap. Bot. 37: 263. 1962.

Distribution: West Bengal (Darjeeling); 2700–3658 m.

Veronica rubrifolia Boiss., Diagn. Pl. Orient., ser. 12(12): 46–47. 1853.

Distribution: Jammu & Kashmir.

Veronica salina Schur, Enum. Pl. Transsilv. 492. 1866.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Veronica secunda Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 89. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Veronica serpyllifolia L., Sp. Pl. 12. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Veronica serpyllifolia L. subsp. **humifusa** (Dicks.) Syme, Engl. Bot. ed. 3b, 6: 158. 1866. *V. humifusa* Dicks.

Distribution: Uttarakhand.

Veronica stewartii Pennell, Acad. Nat. Sci. Philadelphia Monogr. 5: 81. 1943.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Veronica szechuanica Batalin subsp. **sikkimensis** (Hook.f.) D.Y.Hong, Fl. Reipubl. Popularis Sin. 67(2): 304, 403. 1979. *V. capitata* Royle ex. Benth. var. *sikkimensis* Hook.f.

Distribution: Sikkim, Uttarakhand; 2985–4270 m.

Veronica undulata Wall., Fl. Ind., ed. 1820 1: 147–148. 1820.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Veronica verna L., Sp. Pl. 14. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Wightia Wall.

Wightia speciosissima (D.Don) Merr., J. Am. Arb. 19: 67. 1938. *Gmelina speciosissima* D.Don

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1600–2200 m.

Wulfeniopsis D.Y.Hong

Wulfeniopsis amherstiana (Benth.) D.Y.Hong, Acta Phytotax. Sin. 18(1): 51, pl. 6, f. 9–12. 1980. *Wulfenia amherstiana* Benth.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

SELAGINACEAE

(1 genus; 6 taxa)

Lagotis Gaertn.

Lagotis cashmeriana Rupr., Sert. Tianschan. 64. 1869.

Distribution: Jammu & Kashmir; 3800–4000 m.

Lagotis clarkei Hook.f., Fl. Brit. India 4(12): 559. 1885.

Distribution: Sikkim. 4000–5000 m.

Lagotis globosa (Kurz) Hook.f., Fl. Brit. India 4(12): 558. 1885. *Gymnandra globosa* Kurz

Distribution: Jammu & Kashmir.

Lagotis kunawurensis Rupr., Sert. Tianschan. 64. 1869.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 1000–2100 m. (Plate 352a)

Lagotis minor (Willd.) Standl., Publ. Field Mus. Nat. Hist., Bot. Ser. 8: 325. 1931. *Gymnandra minor* Willd.

Distribution: Uttarakhand, Sikkim; 1000–4500 m.

Lagotis spectabilis Hook.f., Fl. Brit. India 4: 560. 1885.

Distribution: Sikkim. 3000–4000 m.

SIMAROUBACEAE

(3 genera; 7 taxa)

Ailanthus Desf.

Ailanthus altissima (Mill.) Swingle, J. Wash. Acad. Sci. 6: 495. 1916. *Toxicodendron altissimum* Mill.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 1800 m.

Ailanthus excelsa Roxb., Pl. Coromandel 1: 24. t. 23. 1795.

Distribution: Sikkim, Uttarakhand.

Ailanthus integrifolia Lam. subsp. **calycina** (Pierre) Noot., Fl. Males. ser. 1, 6(2): 218. 1962. *Pongelion calycinum* Pierre

Distribution: Arunachal Pradesh, Sikkim; 300–800 m.

Brucea J.F.Mill.

Brucea javanica (L.) Merr., J. Arnold Arbor. 9: 3. 1928. *Rhus javanica* L.

Distribution: Arunachal Pradesh.

Brucea mollis Wall. ex Kurz, J. Asiat. Soc. Bengal Pt. 2, Nat. Hist. 42(2): 64. 1873.

Distribution: Arunachal Pradesh, Sikkim; 100–1000 m.

Picrasma Blume

Picrasma javanica Blume, Bijdr. 5. 1825.

Distribution: Arunachal Pradesh, Sikkim; 300–1000 m.

Picrasma quassioides (D. Don) Benn., Pl. Jav. Rar. 198. 1844. *Simaba quassioides* D. Don.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2000 m.

SOLANACEAE
(25 genera; 83 taxa)

Anisodus Link ex Spreng.

Anisodus luridus Link, Syst. Veg. 1: 699. 1824.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2285–4500 m.

Atropa L.

Atropa acuminata Royle ex Lindl., J. Hort. Soc. London 1: 306. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Atropa belladonna L., Sp. Pl. 181. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir.

Brugmansia Pers.

Brugmansia suaveolans (Humb. & Bonpl. ex Willd.) Berch & Presl. Rostl. 1. Solanaceae 45. 1820. *Datura suaveolans* Humb. & Bonpl. ex Willd.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2500 m.

Browallia L.

Browallia americana L., Sp. Pl. 631. 1753.

Distribution: West Bengal (Darjeeling).

Brunfelsia L.

Brunfelsia americana L., Sp. Pl. 191. 1753.

Distribution: Uttarakhand.

Capsicum L.

Capsicum annuum L., Sp. Pl. 188. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–3000 m.

Capsicum annuum L. var. **glabriusculum** (Dunal) Heiser & Pickersgill, Baileya 19: 156. 1975. *C. hispidum* Dunal var. *glabriusculum* Dunal.

Distribution: Arunachal Pradesh; 1400–2000 m.

Cestrum L.

Cestrum aurantiacum Lindl., Edwards's Bot. Reg. 30(Misc.): 71. 1844.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–2100 m.

Cestrum diurnum L., Sp. Pl. 191. 1753.

Distribution: Uttarakhand.

Cestrum elegans (Brongn.) Schldtl., Linnaea 19: 261. 1847. *Habrothamnus elegans* Brongn.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000 m.

Cestrum fasciculatum (Schldtl.) Miers, London J. Bot. 5: 151. 1846. *Meyenia fasciculata* Schldtl.

Distribution: Uttarakhand, West Bengal (Darjeeling).

Cestrum nocturnum L., Sp. Pl. 191. 1753.

Distribution: Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling); 900–1525 m.

Cestrum parqui L'Hér., Stirp. Nov. 73. 1788.

Distribution: Uttarakhand.

Cyphomandra Mart. ex Sendtn.

Cyphomandra betacea (Cav.) Sendtn., Flora 28: 172. 1845. *Solanum betaceum* Cav.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1250–1900 m.

Datura L.

Datura innoxia Mill., Gard. Dict. ed. 8: 5. 1768.

Distribution: Jammu & Kashmir, Uttarakhand.

Datura metel L., Sp. Pl. 179. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1220 m.

Datura stramonium L., Sp. Pl. 179. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000–3000 m.

Hyoscyamus L.

Hyoscyamus niger L., Sp. Pl. 179. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3700 m.

Hyoscyamus pusillus L., Sp. Pl. 180. 1753.

Distribution: Jammu & Kashmir.

Iochroma Benth.

Iochroma coccinea Scheid., Fl. des Serres, Ser. 2. 2: 151, t. 1261. 1857.

Distribution: West Bengal (Darjeeling); 2100 m.

Lycianthes (Dunal) Hassl.

Lycianthes biflora (Lour.) Bitter, *Lycianthes* 461–464. 1919. *Solanum biflorum* Lour.

Distribution: Sikkim; 2000–2500 m.

Lycianthes crassipetala (Wall.) R.R.Mill, *Edinburgh J. Bot.* 57: 465. 2000. *Solanum crassipetala* Wall.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–1830 m.

Lycianthes laevis (Dunal) Bitter, *Lycianthes* 484–485. 1919. *Solanum laeve* Dunal

Distribution: Arunachal Pradesh, Sikkim; upto 1500 m. **(Plate 280a)**

Lycianthes laevis (Dunal) Bitter subsp. **crassipetala** (Wall.) Deb, *Bot. J. Linn. Soc.* 71: 293. 1978. *Solanum crassipetalum* Wall.

Distribution: Arunachal Pradesh, Sikkim; 200–1000 m.

Lycianthes laevis (Dunal) Bitter subsp. **subtruncata** Deb, *Bot. J. Linn. Soc.* 71: 293. 1978.

Distribution: Arunachal Pradesh, Sikkim; 900–1500 m.

Lycianthes lysimachioides (Wall.) Bitter, *Lycianthes* 491–493 1919. *Solanum lysimachioides* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 900–2440 m.

Lycianthes macrodon (Wall. ex Nees) Bitter, *Lycianthes* 468–470. 1919. *Solanum macrodon* Wall. ex Nees

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1220–2440 m.

Lycianthes neesiana (Wall. ex Nees) D'Arcy & Zhi Y. Zhang, *Novon* 2(2): 126. 1992. *Solanum neesianum* Wall. ex Nees

Distribution: Arunachal Pradesh. **(Plate 184b)**

Lycianthes rantonnetii (Carrière) Bitter, *Abh. Naturwiss. Vereins Bremen* 24: 332 1920. *Solanum rantonnetii* Carrière

Distribution: Uttarakhand.

Lycium L.

Lycium europaeum L., *Sp. Pl.* 192. 1753.

Distribution: Uttarakhand.

Lycium ruthenicum Murray, *Commentat. Soc. Regiae Sci. Gott.* 1779: 9. 1780.

Distribution: Jammu & Kashmir.

Lycopersicon Mill.

Lycopersicon esculentum Mill., *Gard. Diet.* ed. 8. No. 2. 1768.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 500–2000 m.

Lycopersicon lycopersicum(L.) H.Karst., Ill. Repet. Pharm.–Med. Bot. 966. 1886.
Solanum lycopersicum L.

Distribution: Himachal Pradesh.

Mandragora L.

Mandragora caulescens C B.Clarke, Fl. Brit. India 4: 242. 1883.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 3500–4800 m.

Nicandra Adans.

Nicandra physalodes (L.) Gaertn., Fruct. Sem. Pl. 2: 237. 1791. *Atropa physalodes* L.

Distribution: Jammu & Kashmir, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal (Darjeeling); 2500 m.

Nicotiana L.

Nicotiana plumbaginifolia Viv., Elench. Pl. Hort. Dinero 26, t. 1802.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1500 m.

Nicotiana rustica L., Sp. Pl. 1: 180. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Nicotiana tabacum L., Sp. Pl. 180. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–2500 m.

Pauia Deb & R.M.Dutta

Pauia belladonna Deb & R.M.Dutta, Indian For. 91(6): 365. 1965.

Distribution: Arunachal Pradesh; 1000–1500 m.

Petunia Juss.

Petunia axillaris (Lam.) Britton, Sterns & Poggenb. *Nicotiana axillaris* Lam.

Distribution: Uttarakhand.

Petunia hybrida Vilm., Fl. Pleine Terre 1: 615–616. 1863.

Distribution: Uttarakhand.

Petunia nyctaginiflora Juss., Ann. Mus. Natl. Hist. Nat. 2: 215–216, pl. 47, f. 2. 1803.

Distribution: Uttarakhand.

Physalis L.

Physalis angulata L., Sp. Pl. 183. 1753.

Distribution: Uttarakhand.

Physalis divaricata D. Don, Prodr. Fl. Nep. 97. 1825.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1800 m.

Physalis heterophylla Nees, *Linnaea* 6(3): 463. 1831.

Distribution: Uttarakhand.

Physalis minima L., *Sp. Pl.* 183. 1753.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; upto 1800 m.

Physalis peruviana L., *Sp. Pl. ed. 2*, 1670. 1763.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Physochlaina G.Don

Physochlaina praealta (Decne.) Miers, *Ann. Mag. Nat. Hist.* 5: 473. 1850. *Belenia praealta* Decne.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3800 m.

Przewalskia Maxim.

Przewalskia tangutica Maxim., *Mélanges Biol. Bull. Phys.–Math. Acad. Imp. Sci. Saint-Pétersbourg* 11: 275. 1881.

Distribution: Sikkim; 4420–5400 m.

Solanum L.

Solanum aculeatissimum Jacq., *Icon. Pl. Rar.* 1: 5, pl. 41. 1781.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–1600 m.

Solanum americanum Mill., *Gard. Dict.* (ed. 8) no. 5. 1768.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–2800 m.

Solanum anguivi Lam., *Tabl. Encycl. Meth. Bot.* 2: 23. 1794.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 900–2300 m.

Solanum asperolanatum Ruiz & Pav., *Fl. Peruv.* 2: 39, pl. 174. f. b. 1799.

Distribution: Uttarakhand.

Solanum barbisetum Nees., *Trans. Linn. Soc. London* 17(1): 51–52. 1834.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1220 m.

Solanum capsicoides All., *Mélanges Philos. Math. Soc. Roy. Turin* 5: 64. 1773.

Distribution: Arunachal Pradesh.

Solanum clavatum Rusby, *Mem. Torrey Bot. Club* 6: 87. 1896.

Distribution: Uttarakhand.

Solanum dulcamara L., *Sp. Pl.* 1: 185. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1830–2590 m.

Solanum erianthum D.Don, *Prodr. Fl. Nep.* 96. 1825.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1200 m.

Solanum ferox L., Sp. Pl. ed. 2, 267. 1763.

Distribution: Arunachal Pradesh; 500–1000 m.

Solanum griffithii (Prain) C.Y.Wu & S.C.Huang., Acta Phytotax. Sin. 16(2): 75, pl. 2, f. 7–9 . 1978. *Solanum barbisetum* Nees. var. *griffithii* Prain

Distribution: Sikkim, West Bengal (Darjeeling); 1220–1830 m.

Solanum indicum L., Sp. Pl. 1: 187. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling). **(Plate 280b)**

Solanum jasminoides J.Paxton, Paxton's Mag. Bot. 8. pl. 5. 1841.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Solanum kurzii Prain, J. Asiat. Soc. Bengal 65: 541 .

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1000 m.

Solanum mauritianum Scop., Delic. Fl. Faun. Insubr. 3: 16, pl. 8. 1788.

Distribution: West Bengal (Darjeeling); 1200–1700 m.

Solanum melongena L., Sp. Pl. 186. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 100–3000 m.

Solanum melongena L. var. **insanum** (L.) Prain, Bengal Pl. 2: 746. 1903. *Solanum insanum* L.

Distribution: Uttarakhand.

Solanum myriacanthum Dunal, Hist. Solan. 218, t. 19. 1813 .

Distribution: Arunachal Pradesh, Sikkim; 200–1500 m. **(Plate 281a)**

Solanum pseudocapsicum L., Sp. Pl. 1: 184. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling).

Solanum purpureilinaetum Sabnis & Bhatt, Bull. Bot. Surv. India 12(1–4): 258. 1970.

Distribution: Uttarakhand.

Solanum rostratum Dunal, Hist. Nat. Solanum 234–235. pl. 24. 1813.

Distribution: Uttarakhand.

Solanum seforthianum Andrews, Bot. Repos. 8: pl. 504. 1808.

Distribution: Uttarakhand, West Bengal (Darjeeling).

Solanum sisymbriifolium Lam., Tabl. Encycl. 2: 25. 1794.

Distribution: Arunachal Pradesh, Uttarakhand; 600–1500 m.

Solanum spirale Roxb., Fl. Ind. 1: 564. 1832.

Distribution: Arunachal Pradesh; 500–1000 m.

Solanum surattense Burm.f., Fl. Indica 57 . 1768.

Distribution: Himachal Pradesh.

Solanum torvum Sw., Prodr. 47. 1788.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1250 m.

Solanum tuberosum L., Sp. Pl. 1: 185. 1753.

Distribution: Throughout the Himalayas.

Solanum verbascifolium L., Sp. Pl. 1: 184. 1753.

Distribution: Himachal Pradesh.

Solanum viarum Dunal., DC., Prodr. 13(1): 240. 1852.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2250 m.

Solanum virginianum L., Sp. Pl. 1: 187. 1753.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Streptosolen Miers

Streptosolen jamesonii (Benth.) Miers, Ann. Mag. Nat. Hist., ser. 2 5: 209. 1850.

Browallia jamesonii Benth.

Distribution: West Bengal (Darjeeling), about 2000 m.

Withania Pauquy

Withania coagulans (Stocks) Dunal, Prodr. 13(1b): 685. 1852. *Puneeria coagulans* Stocks

Distribution: Uttarakhand.

Withania somnifera (L.) Dunal, Prodr. 13(1): 453. 1852. *Physalis somnifera* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 1000 m.

SONNERATIACEAE

(1 genus; 1 taxon)

Duabanga Buch.-Ham.

Duabanga grandiflora (Roxb. ex DC.) Walp., Repert. Bot. Syst. 2: 114. 1843.

Lagerstroemia grandiflora Roxb. ex DC.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 300–400 m. (**Plate 281b**)

STACHYURACEAE

(1 genus; 1 taxon)

Stachyurus Siebold & Zucc.

Stachyurus himalaicus Hook.f. & Thomson ex Benth., J. Linn. Soc. Bot. 5: 55. 1861.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2800 m.

STAPHYLEACEAE

(2 genera; 3 taxa)

Staphylea L.**Staphylea emodi** Wall., Numer. List 4275. 1831.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Turpinia Vent.**Turpinia cochinchinensis** (Lour.) Merr., J. Arnold Arbor. 19: 43. 1938. *Triceros cochinchinensis* Lour.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–1200 m.

Turpinia pomifera (Roxb.) DC., Prodr. 2: 3. 1825. *Dalrympelea pomifera* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 300–800 m.

STERCULIACEAE

(13 genera; 31 taxa)

Abroma Jacq.**Abroma augusta** (L.) L.f., Suppl. Pl. 341. 1781. *Theobroma augusta* L.Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 200–800 m. (**Plate 282a**)**Dombeya** Desf.**Dombeya acutangula** Cav., Diss. 3: 123. 1787.

Distribution: Uttarakhand.

Dombeya burgessiae Gerrard ex Harv., Fl. Cap. 2: 590. 1862.

Distribution: Uttarakhand.

Dombeya spectabilis Bojer, Ann. Sci. Nat., Bot. II, 18: 191. 1842.

Distribution: Uttarakhand.

Eriolaena DC.**Eriolaena hookeriana** Wight & Arn., Prodr. Fl. Ind. Orient. 70. 1834.

Distribution: Sikkim.

Eriolaena spectabilis Planch. ex Mast., Fl. Brit. India 1: 371. 1874.

Distribution: Himachal Pradesh, Uttarakhand.

Eriolaena wallichii DC., Mém. Mus. Hist. Nat. 10: 102. 1823.

Distribution: Sikkim, Uttarakhand, West Bengal(Darjeeling).

Firmiana Marsili**Firmiana colorata** (Roxb.) R.Br., Pterocymbium 235. 1844. *Sterculia colorata* Roxb.

Distribution: Arunachal Pradesh, Uttarakhand; 200–1000 m.

Firmiana fulgens (Wall. ex Mast.) K.Schum., Nat. Pflanzenfam. 3(6): 97. 1893.*Sterculia fulgens* Wall. ex Mast.

Distribution: Jammu & Kashmir, Uttarakhand.

Firmiana simplex (L.) W. Wight, Bull. Bur. Pl. Industr. U.S.D.A. 142: 67. 1909.
Hibiscus simplex L., *Sterculia urens* Roxb.

Distribution: Arunachal Pradesh, Uttarakhand; 500–1200 m.

Helicteres L.

Helicteres elongata Wall. ex Bojer, Hortus Maurit. 35. 1837.

Distribution: Sikkim.

Helicteres hirsuta Lour., Fl. Cochinch. 530. 1790.

Distribution: Sikkim, West Bengal (Darjeeling).

Helicteres isora L., Sp. Pl. 963. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Heritiera J.F.Gmel.

Heritiera dubia Wall. ex Kurz, J. Bot. 12: 65. 1874.

Distribution: Arunachal Pradesh; 800–1200 m.

Heritiera macrophylla Wall. ex Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42(2): 61. 1873.

Distribution: Arunachal Pradesh.

Mansonia J.R.Drumm.

Mansonia dipikae Purkayastha, Indian For., 73: 14. 1947.

Distribution: Arunachal Pradesh.

Melochia J.Agardh

Melochia corchorifolia L., Sp. Pl. 675. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 500–1500 m.

Pterygota Schott & Endl.

Pterygota alata (Roxb.) R.Br., Pterocymbium 234. 1844. *Sterculia alata* Roxb.

Distribution: Arunachal Pradesh, Uttarakhand.

Pterospermum Schreb.

Pterospermum acerifolium (L.) Willd., Sp. Pl. 3:729. 1800. *Pentapetes acerifolia* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 300–1000 m.

Pterospermum javanicum Jungh., Hov. & De Vriese, Tijdschr. 7: 306. 1840.

Distribution: Arunachal Pradesh.

Pterospermum lanceifolium Roxb., Fl. Ind., 3: 163–164. 1832.

Distribution: Arunachal Pradesh, Uttarakhand; 500–1000 m.

Reevesia Lindl.

Reevesia wallichii R.Br., Pl. Jav. Rar. 231. 1844.

Distribution: Arunachal Pradesh, Sikkim; 1000–1500 m.

Sterculia Vent.

Sterculia balanghas L. var. **glabrescens** Mast., Fl. Brit. India 1: 358. 1874.

Distribution: Arunachal Pradesh; 500–1000 m.

Sterculia euosma W.W. Sm., Notes Roy. Bot. Gard. Edinburgh 10(46): 72. 1917.

Distribution: Arunachal Pradesh.

Sterculia guttata Roxb., Hort. Bengal. 50. 1814.

Distribution: Arunachal Pradesh; 100–1000 m.

Sterculia hamiltonii (O.Kuntze.) Adelb., Bekn. Fl. Java 4b(107): 23. 1944.

Clompanus hamiltonii O.Kuntze

Distribution: Arunachal Pradesh, Sikkim; 500–1300 m.

(Plate 282b)

Sterculia kingii Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73(5): 192. 1904.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1200 m.

Sterculia lanceifolia Roxb., Fl. Ind., 3: 150–151. 1832.

Distribution: Arunachal Pradesh, Sikkim; 500–1200 m.

Sterculia maingayi Mast., Fl. Brit. India 1(2): 359. 1874.

Distribution: Arunachal Pradesh; 700–1000 m.

Sterculia villosa Roxb., Fl. Ind., 3: 153–154. 1832.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 600–1200 m.

Waltheria L.

Waltheria indica L., Sp. Pl. 673. 1753.

Distribution: Uttarakhand.

STYLIDIACEAE

(1 genus; 1 taxon)

Stylidium Sw. ex Willd.

Stylidium tenellum Sw. ex Willd. Sp. Pl. 4: 146. 1805.

Distribution: Uttarakhand.

STYRACEAE

(5 genera; 7 taxa)

Alniphyllum Matsum.

Alniphyllum fortunei (Hemsl.) Makino, Bot. Mag. Tokyo 20: 93. 1906. *Halesia*

fortunei Hemsl.

Distribution: Arunachal Pradesh.

Bruinsmia Boerl. & Koord.

Bruinsmia polysperma (C.B. Clarke) Steenis, Bot. Jahrb. 86: 390–393. f.3, a–g. 1967. *Styrax polyspermus* C.B. Clarke

Distribution: Arunachal Pradesh; upto 1500 m.

Huodendron Rehder

Huodendron biaristatum (W.W. Sm.) Rehder, J. Arnold Arbor. 16(3): 344. 1936.
Styrax biaristatus W.W.Sm.

Distribution: Arunachal Pradesh.

Parastyrax W.W.Sm.

Parastyrax lacei (W.W.Sm.) W.W. Sm., Notes Roy. Bot. Gard. Edinburgh 12(59): 232. 1920. *Styrax lacei* W.W.Sm.

Distribution: Arunachal Pradesh; upto 1500 m.

Styrax L.

Styrax grandiflorus Griff., Not. Pl. Asiat. 4: 287, f. 1. 1854.

Distribution: Sikkim, West Bengal (Darjeeling); 1700–2500 m.

Styrax hookeri C.B. Clarke, Fl. Brit. India 3: 589. 1882.

Distribution: Sikkim; 3000 m.

Styrax serrulatus Roxb., Fl. Ind., ed. 1832 2: 415–416. 1832.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); up to 1500 m.
(Plate 283a)

SYMPLOCACEAE

(1 genus; 12 taxa)

Symplocos Jacq.

Symplocos cochinchinensis (Lour.) S. Moore, J. Bot. 52(6): 148–149. 1914. *Dicalix cochinchinensis* Lour.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; up to 2500 m.

Symplocos cochinchinensis (Lour.) S. Moore var. **laurina** (Retz.) Noot., Leiden Bot. Ser. 1: 156. 1975. *Myrtus laurina* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling)

Symplocos dryophila C.B. Clarke, Fl. Brit. India 3(9): 578. 1882.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2000–3500 m.
(Plate 283b)

Symplocos glauca (Thunb.) Koidz., Bot. Mag. (Tokyo) 39(468): 313. 1925. *Laurus glauca* Thunb.

Distribution: Arunachal Pradesh.

Symplocos glomerata King ex C.B. Clarke, Fl. Brit. India 3(9): 577. 1882.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); up to 2700 m.
(Plate 353a)

Symplocos lucida (Thunb.) Siebold & Zucc., Fl. Jap. 1: 55. 1835. *Laurus lucidus* Thunb.

Distribution: Arunachal Pradesh, Uttarakhand, Sikkim, West Bengal (Darjeeling); 300–500 m.

Symplocos oxyphylla Wall., Numer. List 4430. 1831.

Distribution: Arunachal Pradesh.

Symplocos paniculata Miq., Annales Musei Botanici Lugduno–Batavi 3: 102. 1867.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–3000 m.

Symplocos pyrifolia Wall. ex G. Don, Gen. Hist. 4: 3. 1837.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1400–2600 m.

Symplocos racemosa Roxb., Fl. Ind., ed. 1832 2: 539–541. 1832.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–300 m.

Symplocos ramosissima Wall. ex G. Don, Gen. Hist. 4: 3. 1837.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 3000 m.

Symplocos sumuntia Buch.–Ham. ex D. Don, Prodr. Fl. Nepal. 145. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

TAMARICACEAE

(2 genera; 11 taxa)

Myricaria Desv.

Myricaria albiflora Grierson & D.G. Long, Notes Roy. Bot. Gard. Edinburgh 40(1): 116–117. 1982.

Distribution: Himachal Pradesh, Sikkim.

Myricaria davurica (Willd.) Ehrenb., Linnaea 2: 278. 1827. *Tamarix davurica* Willd.

Distribution: Himachal Pradesh, Jammu & Kashmir; 3200–4300 m.

Myricaria elegans Royle, Ill. Bot. Himal. Mts. 1(6): 214. 1839.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–4500 m.

Myricaria germanica (L.) Desv., Ann. Sci. Nat. (Paris) 4: 349. 1825. *Tamarix germanica* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–4200 m. **(Plate 284a)**

Myricaria prostrata Hook.f. & Thomson, Gen. Pl. 1: 161. 1862.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Myricaria rosea W.W. Sm., Notes Roy. Bot. Gard. Edinburgh 10(46): 52. 1917.

Distribution: Sikkim, Uttarakhand; 3300–5200 m.

Tamarix L.

Tamarix arceuthoides Bunge, Mém. Acad. Imp. Sci. St.–Pétersbourg Divers Savans 7: 295. 1851.

Distribution: Jammu & Kashmir.

Tamarix dioica Roxb. ex Roth, Nov. Pl. Ind. 185. 1821.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1500 m.

Tamarix indica Willd., Ges. Naturf. Freunde Berlin Neue Schriften 4: 214. 1803.

Distribution: Jammu & Kashmir, Uttarakhand.

Tamarix leptostachya Bunge, Mem. Savantes Etranges Acad. Petersbourg 7: 293. 1851.

Distribution: Jammu & Kashmir.

Tamarix ramosissima Ledeb., Fl. Alt. 1: 424. 1829.

Distribution: Jammu & Kashmir.

TETRAMELACEAE

(1 genus; 1 taxon)

Tetrameles R.Br.

Tetrameles nudiflora R. Br., Pl. Jav. Rar. 79, pl. 17. 1838.

Distribution: Sikkim; 700 m.

THEACEAE

(8 genera; 22 taxa)

Adinandra Jack

Adinandra griffithii Dyer, Fl. Brit. India 1: 282. 1874.

Distribution: Arunachal Pradesh; 1200–1800 m.

Adinandra kamalae M.K.Pathak, Bhaumik & G.Krishna, Edinburgh J. Bot. 71(3): 380. 2014.

Distribution: Arunachal Pradesh.

Camellia S.Ye Liang & D.J.Dong

Camellia caudata Wall., Pl. Asiat. Rar. 3: 36. 1832.

Distribution: Arunachal Pradesh; 1000–1800 m.

Camellia japonica L., Sp. Pl. 698. 1753.

Distribution: Sikkim.

Camellia kissii Wall., Asiat. Res. 13: 429. 1820.

Distribution: Arunachal Pradesh, Sikkim; 1100–1800 m.

Camellia lutescens Dyer, Fl. Brit. India 1: 293. 1874.

Distribution: Arunachal Pradesh; 1200–1600 m.

Camellia siangensis T.K.Paul & M.P.Nayar, Bull. Bot. Surv. India 27: 92. 1985 (1987). Distribution: Arunachal Pradesh; 1150–1800 m.

Camellia sinensis (L.) Kuntze, Trudy Imp. S.–Peterburgsk. Bot. Sada 10: 195. 1887. *Thea sinensis* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Camellia sinensis (L.) Kuntze var. **assamica** (J.W.Mast.) Kitam., Acta Phytotax. Geobot. 14: 59. 1950. *Thea assamica* J.W. Mast.
Distribution: Sikkim.

Cleyera Adans.

Cleyera japonica Thunb. var. **wallichiana** (DC.) Sealy, Bot. Mag. 163. t. 9606. 1940. *C. ochracea* DC. var. *wallichiana* DC.
Distribution: Uttarakhand.

Gordonia J.Ellis

Gordonia excelsa (Blume) Blume, Bijdr. 130. 1825. *Schima excelsa* Blume
Distribution: Sikkim; 300–1370 m.

Eurya Thunb.

Eurya acuminata DC., Prodr. 1: 525. 1824.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 800–2300 m. **(Plate 284b)**

Eurya arunachalensis A.S.Chauhan, Ind. J. For. 13: 76. 1990.
Distribution: Arunachal Pradesh; 1500–3100 m.

Eurya cavinervis Vesque, Bull. Soc. Bot. France 42: 155. 1895.
Distribution: Arunachal Pradesh, Sikkim; 600–3000 m.

Eurya cerasifolia (D.Don) Kobuski, Ann. Missouri Bot. Gard. 25: 3226. 1938 (1937). *Diospyros cerasifolia* D.Don
Distribution: Arunachal Pradesh, Sikkim; 1500–2200 m.

Eurya japonica Thunb., Nov. Gen. Pl. 67.1783.
Distribution: Arunachal Pradesh, Sikkim; 1500–1800 m.

Eurya nitida Korth., Verh. Nat. Gesch. Ned. Bezitt., Bot. 115. 1841.
Distribution: Arunachal Pradesh, Sikkim; 1000–2000 m.

Eurya trichocarpa Korth., Verh. Nat. Gesch. Ned. Bezitt., Bot. 114. 1841.
Distribution: Arunachal Pradesh; 1000–2000 m.

Pyrenaria Blume

Pyrenaria barringtoniifolia Seem, Bonplandia (Hannover) 7: 49. 1859.
Distribution: Arunachal Pradesh; 100–500 m.

Schima Aucl. ex Steud.

Schima wallichii (DC.) Korthals, Verh. Nat. Gesch. Ned. Bezitt. Bot. 5: 143. 1842. *Gordonia wallichii* DC.
Distribution: Arunachal Pradesh, Sikkim; 500–2000 m. **(Plate 285a)**

Schima wallichii (DC.) Korthals var. **khasiana** Bloemb., Reinwardtia 2: 164. 1952.
Distribution: Arunachal Pradesh; 1400–1800 m.

Ternstroemia L.f.

Ternstroemia gymnanthera (Wight & Arn.) Sprague, Jour. Bot. 61: 18. 1923. *Cleyera gymnanthera* Wight & Arn.

Distribution: Sikkim; 2100–2550 m.

THUNBERGIACEAE

(1 genus; 7 taxa)

Thunbergia Retz.

Thunbergia alata Bojer ex Sims, Bot. Mag. 52: t. 2591. 1825.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 100–600 m.

Thunbergia coccinea Wall., Tent. Fl. Nepal. 1: 48–49, pl. 37. 1826.

Distribution: Arunachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling); 700–2200 m. **(Plate 285b)**

Thunbergia erecta (Benth.) T. Anderson, J. Proc. Linn. Soc., Bot. 7: 18. 1864. *Meyenia erecta* Benth.

Distribution: Uttarakhand.

Thunbergia fragrans Roxb., Pl. Coromandel 1: 47. 1796.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1300 m.

Thunbergia grandiflora Roxb., Bot. Reg. 6: 6. 1820.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–800 m. **(Plate 286a)**

Thunbergia laevis Nees, Pl. Asiat. Rar. 3: 77. 1832.

Distribution: Uttarakhand; 900–1900 m.

Thunbergia lutea T. Anderson, J. Linn. Soc., Bot. 9: 448. 1866.

Distribution: Sikkim, West Bengal (Darjeeling); 1400–2500 m.

THYMELAEACEAE

(8 genera; 17 taxa)

Aquilaria Lam.

Aquilaria khasiana Hallierf., Meded. Herb. Leid. 44: 18. 1922.

Distribution: Arunachal Pradesh.

Aquilaria malaccensis Lam., Encycl. Meth. Bot. 1: 49. 1783. *A. agallocha* Roxb.

Distribution: Arunachal Pradesh; 400–1000 m.

Daphne L.

Daphne bholua Buch.-Ham. ex D. Don, Prodr. Fl. Nep. 68. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–3400 m. **(Plate 286b)**

Daphne bholua Buch.-Ham. ex D.Don var. **glacialis** (W.W.Sm. & Cave) B.L.Burt, Bull. Misc. Inform. Kew 1936: 437. 1936. *D. cannabina* Lour. ex Wall. var. *glacialis* W.W.Sm. & Cave

Distribution: Sikkim; 2100–3300 m.

Daphne involucrata Wall., As. Res. 13: t. 6. 1820.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 800–2000 m.

Daphne mucronata Royle, Ill. Bot. Himal. Mts. 322. 1836.

Distribution: Jammu & Kashmir.

Daphne oleoides Schreb., Icones Descr. Decad. 1: 13. 1766.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2500–3500 m.

Daphne papyracea Wall. ex G.Don, Hort. Brit. 153. 1830.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–2500 m. **(Plate 287a)**

Daphne sureil W.W.Sm. & Cave, Rec. Bot. Surv. India 6(2): 51, f. 2. 1913.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1220–2130 m.

Daphne tangutica Maxim, Bull. Acad. Imp. Sci. Saint-Petersbourg III, 27: 531. 1881.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3400–3800 m. **(Plate 287b)**

Diarthron Turcz.

Diarthron lessertii (Wikstr.) Kit Tan, Notes Roy. Bot. Gard. Edinburgh 40: 218. 1982. *Passerina lessertii* Wikstr.

Distribution: Jammu & Kashmir.

Edgeworthia Meisn.

Edgeworthia gardneri (Wall.) Meissn., Dentschr. B. Ges. Regensb. 3: 280, t. 6. 1841. *Daphne gardneri* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1670–2400 m.

Edgeworthia longipes Lace, Kew Bull. 1914: 380. 1914.

Distribution: Arunachal Pradesh.

Eriosolena Blume

Eriosolena composita (L.f.) Merr., Contr. Arnold Arbor. 8: 111. 1934. *Scopolia composita* L.f.

Distribution: Arunachal Pradesh; 1200–1800 m.

Stellera L.

Stellera chamaejasme L., Sp. Pl. 1: 559. 1753.

Distribution: Sikkim, Uttarakhand; 3500–4300 m.

Thymelaea Mill.

Thymelaea passerina (L.) Coss. & Germ., Syn. Anal. Fl. Paris ed. 2: 360. 1859.

Stellera passerina L.

Distribution: Jammu & Kashmir; 1200–1400 m.

Wickstroemia Endl.

Wickstroemia canescens Meissn., Denkschr. Bot. Ges. Reg. 3: 288. 1841.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.

TILIACEAE

(5 genera; 35 taxa)

Colona Cav.

Colona floribunda (Kurz) Craib, Fl. Siam. 1: 189. 1925. *Columbia floribunda*

Kurz

Distribution: Arunachal Pradesh; 800–1500 m.

Corchorus L.

Corchorus aestuans L., Syst. Nat. ed. 10, 2: 1079. 1759.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 300–600 m.

Corchorus capsularis L., Sp. Pl. 529. 1753.

Distribution: Arunachal Pradesh, Uttarakhand.

Corchorus depressus (L.) Stocks, Proc. Linn. Soc. 1(35): 367. 1848. *Antichorus depressus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Corchorus olitorius L., Sp. Pl. 1: 529. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Corchorus tridens L., Mant. Pl. 2: 566. 1771.

Distribution: Jammu & Kashmir, Uttarakhand.

Corchorus trilocularis L., Mant. Pl. 1: 77. 1767.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Grewia L.

Grewia abutilifolia Vent. ex Juss., Ann. Mus. Natl. Hist. Nat. 4: 92. 1804.

Distribution: Himachal Pradesh, Sikkim.

Grewia asiatica L., Mant. Pl. 1: 122. 1767.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 500–1000 m.

Grewia damine Gaertn., Fruct. Sem. Pl. 2: 113. 1790.

Distribution: Uttarakhand.

Grewia denticulata Wall. ex Prain, Ann. Roy. Bot. Gard. (Calcutta) 9: 10. 1901.

Distribution: Arunachal Pradesh; 500–1000 m.

Grewia eriocarpa Juss., Ann. Mus. Natl. Hist. Nat. 4: 93. 1804.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1600 m.

Grewia helicterifolia Wall. ex GDon, Gen. Hist. 1: 548. 1831.

Distribution: Himachal Pradesh, Uttarakhand.

Grewia laevigata Vahl, Symb. Bot. 1: 34. 1790.

Distribution: Arunachal Pradesh.

Grewia multiflora Juss., Ann. Mus. Natl. Hist. Nat. 4: 89. 1804.

Distribution: Himachal Pradesh.

Grewia oppositifolia Roxb. ex DC., Prodr. 1: 509. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Grewia optiva J.R.Drumm. ex Burret, Notizbl. Bot. Gart. Berl. Dahlem 9: 692. 1926.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Grewia piscatorum Hance, Ann. Sci. Nat. Bot. ser. 5, 5: 208. 1866.

Distribution: Arunachal Pradesh.

Grewia rothii DC., Prodr. 1: 509. 1824.

Distribution: Sikkim.

Grewia sapida Roxb. ex DC., Prodr. 1: 512. 1824.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Grewia serrulata DC., Prodr. 1: 510. 1824.

Distribution: Arunachal Pradesh.

Grewia sclerophylla Roxb. ex GDon, Gen. Hist. 1: 550. 1831.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Grewia serrulata DC., Prodr. 1: 510. 1824.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 200–1000 m.

Grewia tenax (Forssk.) Fiori, Agric. Colon. 5(Suppl.): 23. 1911. *Chadara tenax* Forssk.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Grewia tiliifolia Vahl., Symb. Bot. 1: 35. 1790.

Distribution: Uttarakhand.

Tilia L.

Tilia cordata Mill., Gard. Dict. ed. 8. 1. 1768.

Distribution: Himachal Pradesh.

Tilia europaea L., Sp. Pl. 514 1753.

Distribution: Uttarakhand, Himachal Pradesh.

Tilia platyphyllos Scop. Fl. Carn. ed. 2. 1: 373. 1771.

Distribution: Himachal Pradesh.

Triumfetta L.

Triumfetta annua L., Mant. Pl. 1:73. 1767.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1800–2200 m.

Triumfetta cana Blume, Bijdr. Fl. Ned. Ind. 126. 1825.

Distribution: Arunachal Pradesh.

Triumfetta oblique Rotb. Nov. Sp. Pl. 224. 1821.

Distribution: Arunachal Pradesh; 100–350 m.

Triumfetta pentandra A.Rich., Fl. Seneg. Tent. 93. t. 19. 1831.

Distribution: Jammu & Kashmir, Uttarakhand.

Triumfetta pilosa Roth, Nov. Sp. Pl. 223. 1821.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–1200 m. (Plate 353b)

Triumfetta rhomboidea Jacq., Enum. Pl. Carib. 22. 1760.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Triumfetta tomentosa Bojer ex Bouton, Rapp. Annual Trav. Soc. Hist. Nat. Ile Maurice 12: 19. 1842.

Distribution: Sikkim, West Bengal (Darjeeling).

TRAPACEAE

(1 genus; 3 taxa)

Trapa L.

Trapa incisa Siebold & Zucc., Abh. Math.-Phys. Cl. Königl. Bayer. Akad. Wiss. 4(2): 134. 1846.

Distribution: Arunachal Pradesh.

Trapa natans L., Sp. Pl. 120. 1753.

Distribution: Jammu & Kashmir.

Trapa natans L. var. **bispinosa** (Roxb.) Makino, Bot. Mag. (Tokyo) 11: 283. 1897. *T. bispinosa* Roxb.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3500–4800 m.

TROCHODENDRACEAE

(1 genus; 1 taxon)

Tetracentron Oliv.

Tetracentron sinense Oliv., Hooker's Icon. Pl. 19(4): pl. 1892. 1889.

Distribution: Arunachal Pradesh, Sikkim; 1800–2000 m.

TROPAEOLACEAE

(1 genus; 1 taxon)

Tropaeolum L.**Tropaeolum majus** L, Sp. Pl. 1: 345. 1753

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

ULMACEAE

(4 genera; 17 taxa)

Celtis L.**Celtis australis** L., Sp. Pl. 1043. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Celtis australis L. subsp. **caucasica** (Willd.) C.C.Towns, Fl. Iraq 4(1): 73. 1980.
C. caucasica Willd.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Celtis tetrandra Roxb., Fl. Ind. 2: 63. 1832.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Celtis timorensis Span., Linnaea 15: 343. 1841.

Distribution: Arunachal Pradesh, Sikkim; 300–600 m.

Holoptelea Planch.**Holoptelea integrifolia** (Roxb.) Planch., Ann. Sci. Nat. Ser. 3. 10: 266. 1848. *Ulmus integrifolia* Roxb.

Distribution: Jammu & Kashmir, Uttarakhand.

Trema Lour.**Trema cannabina** Lour., Fl. Cochinch. 2: 563. 1790.

Distribution: Himachal Pradesh, Sikkim; upto 1500 m.

Trema orientalis (L.) Blume, Mus. Bot. Lugd. Bat. 2: 62. 1856. *Celtis orientalis* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 300–1200 m.

Trema politoria (Planch.) Blume, Mus. Bot. Lugd.-Bat. 2: 58. 1856. *Sponia politoria* Planch.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–1810 m.

Trema tomentosa (Roxb.) H. Hara, Fl. E. Himal. 2: 19. 1971. *Celtis tomentosa* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 600–1500 m.

Ulmus L.

Ulmus androssowii Litv. var. **subhirsuta** (C.K.Schneid) P.H.Huang, Bull. Bot. Res. Harbin 11 (3): 43. 1991. *U. wilsoniana* C.K.Schneid var. *subhirsuta* C.K.Schneid

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ulmus brandisiana Melville & Heybroek, Kew Bull. 26: 19. 1971.

Distribution: Himachal Pradesh, Uttarakhand.

Ulmus lanceifolia Roxb. ex Wall., Pl. As. Rar. 2: 86, t. 200. 1831.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 600–2500 m.

Ulmus parvifolia Jacq., Pl. Rar. Hort. Schoenbr. 3: 6, pl. 262. 1798.

Distribution: Jammu & Kashmir; 2000–3000 m.

Ulmus pumila L., Sp. Pl. 226. 1753.

Distribution: Jammu & Kashmir.

Ulmus villosa Brandis ex Gamble, Man. Ind. Timbers ed. 2: 628. 1902.

Distribution: Himachal Pradesh, Jammu & Kashmir; 1200–2500 m.

Ulmus wallichiana Planch., Ann. Sci. Nat. ser. 3. 10: 277. 1848. var. **wallichiana**.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Ulmus wallichiana Planch. subsp. **xanthoderma** Melville & Heybroek, Kew Bull. 26: 10. 1971.

Distribution: Himachal Pradesh.

URTICACEAE

(21 genera; 104 taxa)

Aphananthe Planch

Aphananthe cuspidata (Blume) Planch, Prodr. 17: 209. 1873. *Cyclostemon cuspidatum* Blume

Distribution: Arunachal Pradesh, Sikkim; upto 500 m.

Boehmeria Jacq.

Boehmeria clidemioides Miq., Pl. Jungh. 34. 1851.

Distribution: Arunachal Pradesh, Sikkim; upto 2000 m.

Boehmeria glomerulifera Miq., Zoll. Syst. Verz. Ind. Archip. 101, 104. 1854.

Distribution: Arunachal Pradesh, Sikkim; 600–1650 m.

Boehmeria hamiltoniana Wedd., Ann. Sci. Nat. ser. 4, 1: 199. 1854.

Distribution: Arunachal Pradesh, Sikkim; upto 2400 m.

Boehmeria japonica (L.f.) Miq., Ann. Mus. Bot. Lugduno-Batavi 3: 131. 1867. *Urtica japonica* L.f.

Distribution: Sikkim; 1200–1500 m.

Boehmeria listeri Firss & Wilmot-Dear, Edinburgh J. Bot. 67(3): 432. 2010.

Distribution: Arunachal Pradesh.

Boehmeria macrophylla Homem., Hort. Reg. Bot. Hafin. 2: 890. 1815. var. **macrophylla**.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 300–2700 m.

Boehmeria macrophylla Homem. var. **rotundifolia** (D.Don) W.T.Wang, Fl. Reipubl. Popul. Sin. 23 (2): 337. 1995. *B. rotundifolia* D. Don

Distribution: Arunachal Pradesh; upto 2500 m.

Boehmeria macrophylla Homem. var. **scabrella** (Roxb.) D.G.Long, Notes Roy. Bot. Gard. Edinburgh 40: 129. 1982. *B. platyphylla* D.Don var. *canescens* Roxb.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 300–2500 m.

Boehmeria nivea (L.) Gaudich., Voy Uranie 499. 1830. *Urtica nivea* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Boehmeria penduliflora Wedd. ex D.G.Long, Notes Roy. Bot. Edinburgh 40: 130. 1982.

Distribution: Arunachal Pradesh, Sikkim; upto 1200 m.

Boehmeria polystachya Wedd., Monogr. Urtic. 370. 1856.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 500–2500 m.

Boehmeria rugulosa Wedd., Monogr. Urtic. 370. 1856.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; upto 1700 m.

Boehmeria tenuis King ex Hook.f., Fl. Brit. India 5: 577. 1888.

Distribution: Arunachal Pradesh.

Boehmeria tirapensis Deb & R.M.Dutta, Ind. For. 90: 782. 1964.

Distribution: Arunachal Pradesh.

Boehmeria tomentosa Wedd., Ann. Sci. Nat. Bot. IV, 1: 200. 1854.

Distribution: Arunachal Pradesh.

Chamabainia Wight

Chamabainia cuspidata Wight, Ic. Pl. Ind. Or. 6: 11, t. 1981. 1853.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1800–3000 m.

Debregeasia Gaudich.

Debregeasia longifolia (Burm.f.) Wedd., Prodr. 16 (1): 235. 1869. *Urtica longifolia* Burm.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 400–2100 m. **(Plate 353c)**

Debregeasia saeneb (Forssk.) Hepper & J.R.I.Wood, Kew Bull. 38: 86. 1983. *Rhus saeneb* Forssk.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1000–1800 m.

Debregeasia wallichiana (Wedd.) Wedd., Nouv. Arch. Mus. Nat. Paris 9: 464. 1857. *Missiessya wallichiana* Wedd.

Distribution: Arunachal Pradesh, Sikkim; 450–1200 m.

Dendrocide Miq.

Dendrocide sinuata (Blume) Chew., Gard. Bull. Singapore 21: 206. 1965. *Urtica sinuata* Blume

Distribution: Arunachal Pradesh, Sikkim; 800–1500 m.

Droguetia Gaudich

Droguetia iners (Forssk.) Schweinf., Bull. Herb. Boissier 4 (2): 146. 1896. *Urtica iners* Forssk.

Distribution: Arunachal Pradesh.

Elatostema J.R.Forst. & G.Forst.

Elatostema acuminatum (Poir) Brong., Duperr. Voy. Bot. 211. 1826. *Procris acuminata* Poir

Distribution: Arunachal Pradesh; 900–1500 m.

Elatostema arcuans Dunn, Kew Bull. 1920: 209. 1920.

Distribution: Arunachal Pradesh; 400 m.

Elatostema cornutum Wedd., Arch. Mus. Hist. Nat. 9: 316. 1856.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1200 m.

Elatostema cuneatum Wight, Ic. Pl. Ind. Or. 6: 35, t. 2091.f. 3. 1853.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1800 m.

Elatostema decipiens Wedd., Prodr. 16(1): 176. 1869.

Distribution: Arunachal Pradesh; upto 1500 m.

Elatostema dissectum Wedd., Monogr. Urtic. 314. 1856.

Distribution: Arunachal Pradesh, Sikkim; 450–1700 m.

Elatostema ficoides Wedd., Arch. Mus. Hist. Nat. 9: 306. 1856.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1800–2100 m.

Elatostema grandidentatum W.T.Wang, Acta Phytotax. Sin. 17(1): 107. 1979.

Distribution: Sikkim; 2300–3300 m.

Elatostema griffithii Hook.f., Fl. Brit. India 5: 569. 1888.

Distribution: Arunachal Pradesh; 400 m.

Elatostema griffithianum (Wedd.) Hallierf., Ann. Jard. Bot. Buitenzorg 13: 316. 1896. *Pellionia griffithiana* Wedd.

Distribution: Arunachal Pradesh, Sikkim; 1500 m.

(Plate 288a)

Elatostema hookerianum Wedd., Monogr. Urtic. 309. 1856.

Distribution: Arunachal Pradesh, Sikkim; 900–2700 m.

Elatostema imbricans Dunn, Kew Bull. 1920: 209. 1920.

Distribution: Arunachal Pradesh; 1500–2400 m.

Elatostema integrifolium (D.Don) Wedd., Prodr. 16(1): 179. 1869. *Procris integrifolia* D.Don

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2000–2700 m.

Elatostema lineolatum Wight, Ic. Pl. Ind. Or. t. 1984. 1853.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1800 m.

Elatostema longicaudatum Grierson & D.G. Long, Notes Roy. Bot. Gard. Edinburgh 40 (1): 131–133. 1982.

Distribution: Arunachal Pradesh.

Elatostema macintyreii Dunn, Kew Bull. 1920: 210. 1920.

Distribution: Arunachal Pradesh.

Elatostema monandrum (Buch.-Ham. ex D.Don) H.Hara, Fl. E. Himal. 3: 21. 1975. *Procris monandra* Buch.-Ham. ex D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 400–3000 m.

Elatostema nasutum Hook.f., Fl. Brit. India 5: 571. 1888.

Distribution: Arunachal Pradesh, Sikkim; 1700–2100 m. **(Plate 288b)**

Elatostema obtusum Wedd., Monogr. Urtic. 324. 1856.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2500–3200 m.

Elatostema papillosum Wedd., Monogr. Urtic. 327. 1856.

Distribution: Arunachal Pradesh; 700–2000 m.

Elatostema parvum (Blume) Blume ex Miq., Syst. Verz. 102. 1855. *Procris parva* Blume

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1000 m.

Elatostema platyphyllum Wedd., Monogr. Urtic. 301. 1856.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 700–1600 m.

Elatostema procridioides Wedd., Prodr. 16(1): 180. 1869.

Distribution: Arunachal Pradesh, Sikkim; 1500 m.

Elatostema punctatum Wedd. Ann. Sci. Nat., Bot. IV, 1: 189. 1854.

Distribution: Sikkim, Uttarakhand; 1200–2600 m.

Elatostema pusillum C.B. Clarke ex Hook.f., Fl. Brit. India 5: 568. 1888.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3000 m.

Elatostema rhombiforme W.T. Wang, Bull. Bot. Lab. N. E. Forest. Inst., Harbin 7: 50. 1980.

Distribution: Sikkim; 1200–1800 m.

Elatostema rupestre (Buch.-Ham. ex D.Don) Wedd., Monogr. Urtic. 304. 1856.

Procris rupestre Buch.-Ham. ex D.Don

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1500 m.

Elatostema sessile J.R.Forst & G.Forst., Char. Gen. Pl. Austr. 106. 1776. var. **sessile**

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 400–2600 m.

Elatostema sikkimense C.B.Clarke, J. Linn. Soc. Bot. 15: 125. 1876.

Distribution: Arunachal Pradesh, Sikkim; 1000–2400 m.

Elatostema stellatum Hook.f., Fl. Brit. India 5: 572. 1888.

Distribution: Sikkim; 1500 m.

Elatostema subincisum Wedd., Arch. Mus. Hist. Nat. 9: 314. 1856.

Distribution: Sikkim, West Bengal (Darjeeling); 2100–2300 m.

Girardinia Gaudich.

Girardinia diversifolia (Link) Friis, Kew Bull. 36: 143. 1981. subsp. **diversifolia**.

Urtica diversifolia Link

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 400–3000 m.

Girardinia diversifolia (Link) Friis subsp. **suborbiculata** (C.J.Chen) C.J.Chen &

Friis, Fl. China 5: 91.2003. *G. suborbiculata* C.J.Chen

Distribution: Uttarakhand; 1850 m.

Gonostegia Turcz.

Gonostegia hirta (Blume) Miq., Ann. Mus. Bot. Ludg.-Bat. 4: 303. t. 10.f. 2. 1869.

Urtica hirta Blume, *Pouzolzia hirta* (Blume) Hassk.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–2500 m.

Gonostegia pentandra (Roxb.) Miq., Ann. Mus. Bot. Lugduno-Batavi 4: 302. 1869.

Urtica pentandra Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Laporteia Gaudich.

Laporteia bulbifera (Siebold & Zucc.) Wedd., Arch. Mus. Hist. Nat. 9(1–2): 139.

1857. *Urtica bulbifera* Siebold & Zucc.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1800–3300 m.

Laporteia interrupta (L.) Chew, Gard. Bull. Singapore 21(2): 200–201. 1965.

Urtica interrupta L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand.

Laporteia stolonifera B.L.Bhellum & B.Singh, Bangladesh J. Plant Taxon. 23(2):

190. 2016.

Distribution: Jammu & Kashmir.

Lecanthus Wedd.

Lecanthus peduncularis (Wall. ex Royle) Wedd., Prodr. 16(1): 164. 1869. var. **peduncularis**. *Procris peduncularis* Wall. ex Royle

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–3200 m. (Plate 288c)

Lecanthus peduncularis (Wall. ex Royle) Wedd. var. **garhwalensis** Silas & R.D.Gaur, J. Bomb. Nat. Hist. Soc. 87: 280. 1990.

Distribution: Uttarakhand.

Maoutia Wedd.

Maoutia puya (Hook.) Wedd., Ann. Sci. Nat. ser. 4. 1: 193. 1854. *Boehmeria puya* Hook.

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 300–1200 m.

Neodistemon Babu & A.N.Henry

Neodistemon indicum (Wedd.) Babu & A.N.Henry, Taxon 19: 651. 1970. *Distemon indicum* Wedd.

Distribution: Arunachal Pradesh, Uttarakhand; 500 m.

Oreocnide Miq.

Oreocnide frutescens (Thunb.) Miq., Ann. Mus. Bot. Lugd.-Bat. 3: 131. 1867. *Urtica frutescens* Thunb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–2300 m.

Oreocnide integrifolia (Gaudich.) Miq., Ann. Mus. Bot. Lugd.-Bat. 4: 306. 1869. *Villebrunea integrifolia* Gaudich.

Distribution: Arunachal Pradesh, Sikkim; 300–1200 m.

Oreocnide rubescens (Blume) Miq., Syst. Verz. 101. 1854. *Urtica rubescens* Blume
Distribution: Sikkim; 600–1600 m.

Parietaria L.

Parietaria debilis G.Forst, Fl. Ins. Austr. 73. 1786.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–4000 m.

Parietaria judaica L., Sp. Pl. ed. 2. 1492. 1763.

Distribution: Jammu & Kashmir.

Pilea Lindl.

Pilea anisophylla (Hook.f.) Wedd., Monogr. Urtic. 193. 1856. *P. anisophylla* Wedd. var. *robusta* Hook.f.

Distribution: Arunachal Pradesh, Sikkim; 900–2100 m.

- Pilea approximata** C.B.Clarke, J. Linn. Soc. Bot. 15: 123. 1876.
Distribution: Sikkim; 2500–3700 m.
- Pilea bracteosa** Wedd., Monogr. Urtic. 245. 1856.
Distribution: Arunachal Pradesh, Sikkim; 600–2700 m.
- Pilea clarkei** Hook.f., Fl. Brit. India 5(15): 553. 1888.
Distribution: Sikkim; 1050–1500 m.
- Pilea cordifolia** Hook.f., Fl. Brit. India 5(15): 558. 1888.
Distribution: Sikkim, West Bengal (Darjeeling); 300–2100 m.
- Pilea glaberrima** (Blume) Blume, Mus.Bot. Lugd.-Bat. 2(4): 54. 1856. *Urtica glaberrima* Blume
Distribution: Arunachal Pradesh, Sikkim; 300–1700 m.
- Pilea hookeriana** Wedd., Arch. Mus. Hist. Nat. 9(1–2): 226. 1856.
Distribution: Sikkim; 750–2000 m.
- Pilea insolens** Wedd., Prodr. 16(1): 118. 1869.
Distribution: Arunachal Pradesh; 600–2600 m.
- Pilea microphylla** (L.) Liebm., Kongel. Danske Vidensk. Selsk. Skr., Nat. Math. Afd. Ser. 5, 5 (2): 302. 1851. *Parietaria microphylla* L.
Distribution: Uttarakhand.
- Pilea obesa** (Wall.) Wedd. ex H.Hara, Enum. Fl. Pl. Nepal 3: 205. 1982. *Urtica obesa* Wall.
Distribution: Uttarakhand.
- Pilea peploides** (Gaudich.) Hook. & Arn., Bot. Beechey Voy. 96. 1832. *Dubrueilia peploides* Gaudich.
Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1350–1400 m.
- Pilea racemosa** (Royle) Tuyama, Hara Fl. East. Himal. 61. 1966. *Procris racemosa* Royle
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 3140–4260 m.
- Pilea scripta** (Buch.-Ham. ex D.Don) Wedd., Ann. Sci. Nat. ser. 4, 1: 187. 1854. *Urtica scripta* Buch.-Ham. ex D.Don
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 400–2500 m.
- Pilea serpyllifolia** (Poir.) Wedd., Prodr. Syst. Nat. Reg. Veg. 16(1): 107. 1869. *Parietaria serpyllifolia* Poir.
Distribution: Uttarakhand.
- Pilea symmeria** Wedd., Monogr. Urtic. 246. 1856.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; upto 3300 m.

Pilea ternifolia Wedd., Arch. Mus. Hist. Nat. 9: 202. 1856.

Distribution: Sikkim, West Bengal (Darjeeling); 1800–2400 m.

Pilea umbrosa Blume, Mus. Bot. Lugd.-Bat. 2: 56. 1856.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 650–3000 m.

Pilea wightii Wedd., Ann. Sci. Nat. Bot., Ser. 4, 1: 186. 1854.

Distribution: Arunachal Pradesh.

Poikilospermum Zipp. ex Miq.

Poikilospermum lanceolatum (Trécul) Merr., Contr. Arnold Arbor. 8: 50. 1934.

Conocephalus lanceolatus Trécul

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1000 m.

(Plate 288e)

Poikilospermum naucleiflorum (Roxb. ex Lindl.) Chew., Gard. Bull. Singapore 20: 76. 1963. *Conocephalus naucleiflorus* Roxb. ex Lindl.

Distribution: Arunachal Pradesh; 610–700 m.

Poikilospermum suaveolens (Blume) Merr., Contrib. Am. Arb. 8: 47. 1934.

Conocephalus suaveolens Blume

Distribution: Arunachal Pradesh; 900 m.

Pouzolzia Gaudich.

Pouzolzia bennettiana Wight, Ic. Pl. Ind. Or. t. 1978. 1853.

Distribution: Arunachal Pradesh; 300–1500 m.

Pouzolzia calophylla W.T.Wang & C.J.Chen, Acta Phytotax. Sin. 17(1): 108. 1979.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 400–1050 m.

Pouzolzia frondosa (D.Don) Kuntze, Rev. Gen. Pl. 630. 1891. *Boehmeria frondosa*

D. Don

Distribution: Arunachal Pradesh.

Pouzolzia hirta Blume ex Hassk., Cat. Hort. Bogor. 80. 1844. *Urtica hirta* Blume

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim; 900–2650 m.

Pouzolzia quinquenervis Benn. & Br., Pl. Jav. Rar. 67. 1838.

Distribution: Himachal Pradesh.

Pouzolzia sanguinea (Blume) Merr., J. Str. Branch Asiat. Soc. Spec. no. 84: 233.

1921. *Urtica sanguinea* Blume

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 900–2050 m.

Pouzolzia zeylanica (L.) Benn. & Br., Pl. Jav. Rar. 1: 67. 1854. *Parietaria zeylanica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 2500 m.

Procris Comm. ex Juss.

Procris crenata C.B.Rob., Philipp. J. Sci. Bot. 5: 507. 1911.

Distribution: Arunachal Pradesh, Sikkim; 400–1950 m.

Sarcochlamys Gaudich.

Sarcochlamys pulcherrima (Roxb.) Gaudich., Bot. Voy. Bonite. t. 89. 1852. *Urtica pulcherrima* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 300–950 m.

Urtica L.

Urtica ardens Link, Enum. Hort. Berol. 385. 1822.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 2500 m.

Urtica dioica L., Sp. Pl. 984. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2400–3900 m. **(Plate 288d)**

Urtica hyperborea Jacq. ex Wedd., Ann. Sci. Nat. ser. 4. 1: 180. 1854.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4400–5000 m.

Urtica mairei H.Lév., Feddes Repert. 12: 183. 1913. *Urtica parviflora* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 2500–3500 m.

Urtica parviflora Roxb.

Distribution: Sikkim, West Bengal (Darjeeling); 600–2000 m.

Urtica urens L., Sp. Pl. 11: 984. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

VALERIANACEAE

(04 genera; 17 taxa)

Nardostachys DC.

Nardostachys jatamansi (D.Don) DC., Prodr., 4: 624. 1830. *Patrinia jatamansi* D.Don

Distribution: Sikkim, Uttarakhand; 3000–4800 m. **(Plate 289a)**

Patrinia Juss.

Patrinia monandra C.B.Clarke, Fl. Brit. India 3(8): 210. 1881.

Distribution: Sikkim, West Bengal (Darjeeling); 1050–1850 m.

Triplostegia Wall. ex DC.

Triplostegia glandulifera Wall. ex DC., Mém. Soc. Linn. Paris 4: 642. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2500–3000 m. **(Plate 289b)**

Valeriana L.

Valeriana clarkei Briq., *Annuaire Conserv. Jard. Bot. Genève* 17: 331. 1914.

Distribution: Jammu & Kashmir.

Valerianella dentata (L.) Pollich, *Hist. Pl. Palat.* 1: 30. 1776. *V. locusta* (L.) Later. var. *dentata* L.

Distribution: Jammu & Kashmir.

Valeriana dioica L., *Sp. Pl.* 31. 1753.

Distribution: Jammu & Kashmir.

Valeriana hardwickii Wall., *Fl. Ind.* 1: 166. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Valeriana himalayana Grubov, *Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R.* 19: 344. 1959.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Valeriana jaeschkii C.B. Clarke, *Fl. Brit. India* 3: 212. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir; 2000–3000 m.

Valeriana jaeschkii C.B. Clarke var. **kaschmiriensis** Nasir, *Fl. W. Pakistan* 101: 12. 1976.

Distribution: Jammu & Kashmir.

Valeriana jatamansi Jones, *Asiat. Res.* 2: 405. 1790.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–2800 m. **(Plate 289c)**

Valeriana mussooriensis V. Prakash, Aswal & Mehrotra, *Ethnobotany* 1: 47. 1989.

Distribution: Uttarakhand.

Valeriana officinalis L., *Sp. Pl.* 31. 1753.

Distribution: Jammu & Kashmir.

Valeriana pyrolifolia Decne., *Voy. Inde* 4: 85. 1841.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand. **(Plate 290a)**

Valeriana roylei Klotzsch, *Bot. Ergebn. Reise Waldemar* 83. 1862.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Valeriana stracheyi C.B. Clarke, *Fl. Brit. India* 3: 212. 1881.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3000 m.

Valerianella Milll.

Valerianella szovitsiana Fisch. & C.A. Mey., *Index Sem. (St. Petersburg)* 3: 48. 1836.

Distribution: Jammu & Kashmir.

VERBENACEAE
(21 genera; 74 taxa)

Aloysia Paláu

Aloysia citriodora Palau, Parte Pract. Bot. 1: 768. 1784.

Distribution: Himachal Pradesh, Uttarakhand; 200–600 m.

Callicarpa L.

Callicarpa arborea Roxb., Fl. Ind. 1: 405. 1820.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 300–800 m.

Callicarpa longifolia Lam., Ill. 1: 563 t. 69. 1735.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 300–800 m.

Callicarpa macrophylla Vahl, Symb. Bot. 3: 13, t. 53. 1794.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1300 m.

(Plate 290b)

Callicarpa rubella Lindl., Bot. Reg. 11: t. 833. 1825.

Distribution: Arunachal Pradesh, Sikkim; 200–600 m.

(Plate 291)

Callicarpa tomentosa (L.) L., Syst. Veg. ed. 13. 153. 1774. *Tomex tomentosa* L.

Distribution: Arunachal Pradesh; 1000–1200 m.

Callicarpa vestita Wall. ex C.B. Clarke, Hook.f., Fl. Brit. India 4: 567. 1885.

Distribution: Arunachal Pradesh, Sikkim; 500–1200 m.

Caryopteris Bunge

Caryopteris incana (Thunb. ex Houtt.) Miq., Ann. Mus. Bot. Lugduno–Batavi 2: 97. 1865. *Nepeta incana* Thunb. ex Houtt.

Distribution: Uttarakhand; 800–1600 m.

Clerodendrum L.

Clerodendrum bracteatum Wall. ex Walp., Repert. 4: 114. 1845.

Distribution: Arunachal Pradesh, Sikkim; 1200–1700 m.

Clerodendrum chinense (Osbeck.) Mabb., Plant–book Repr.: 707. 1989.
Cryptanthus chinensis Osbeck.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 500–800 m.

(Plate 292)

Clerodendrum cordatum D. Don, Prodr. Fl. Nepal. 103. 1825.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Clerodendrum glandulosum Lindl., Edwards's Bot. Reg. 30: t. 19. 1844.

Distribution: Arunachal Pradesh, Sikkim; 500–800 m.

Clerodendrum griffithianum C.B. Clarke., Fl. Brit. India 4: 590. 1885.

Distribution: Arunachal Pradesh; 200–400 m.

Clerodendrum hastatum (Roxb.) Lindl., Bot. Reg. 16: 1. 1307. 1830. *Siphonanthus hastatus* Roxb.

Distribution: Arunachal Pradesh; 500–1000 m.

Clerodendrum indicum (L.) Kuntze, Rev. Gen. Pl. 506. 1891. *Siphonanthus indica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1300 m.

Clerodendrum infortunatum L., Sp. Pl. 637. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 800–1500 m. **(Plate 294a)**

Clerodendrum japonicum (Thunb.) Sweet, Hort. Brit. 322. 1827. *Volkameria japonica* Thunb.

Distribution: Arunachal Pradesh, Sikkim; 500–1500 m. **(Plate 293)**

Clerodendrum laevifolium Blume, Bijdr. 808. 1826.

Distribution: Arunachal Pradesh, Sikkim; 500–1700 m.

Clerodendrum paniculatum L., Mant. Pl. 1: 90. 1767.

Distribution: Uttarakhand; 500–1500 m.

Clerodendrum panigrahianum A. Rajendran & P. Daniel, J. Bombay Nat. Hist. Soc. 95(1): 99. 1998.

Distribution: Arunachal Pradesh; 1000–1960 m.

Clerodendrum phlomoides Hort. ex DC., Prodr. 5: 613. 1836.

Distribution: Jammu & Kashmir, Uttarakhand; 600–1200 m.

Clerodendrum umbratile King & Gamble, Bull. Misc. Inform. Kew 1908: 110. 1908.

Distribution: Arunachal Pradesh; 500–1000 m.

Clerodendrum urticifolium (Roxb.) Wall., Numer. List 1801. 1829. *Volkameria urticifolia* Roxb.

Distribution: Arunachal Pradesh; 500–1300 m.

Clerodendrum villosum Blume, Bijdr. 811. 1826.

Distribution: Arunachal Pradesh; 800–1300 m.

Duranta L.

Duranta erecta L., Sp. Pl. 637. 1753.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 400–900 m.

Glandularia J.F.Gmel.

Glandularia bipinnatifida (Schauer) Nutt., J. Acad. Nat. Sci. Philadelphia 2: 123. 1821. *Verbena bipinnatifida* Schauer

Distribution: Jammu & Kashmir.

Gmelina L.

Gmelina arborea Roxb., Hort. Bengal. 46.1814.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1000 m. (Plate 294b)

Gmelina philippensis Cham., Linnaea 7: 109. 1832.

Distribution: Uttarakhand; 500–1400 m.

Holmskioldia Retz.

Holmskioldia sanguinea Retz., Observ. Bot. 6: 31. 1791.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1300 m.

Lantana L.

Lantana camara L., Sp. Pl. 627. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1300 m.

Lantana splendens Medik., Hist. & Commentat. Acad. Elect. Sci. Theod.–Palat. 3: 226. 1775.

Distribution: Uttarakhand.

Lantana indica Roxb., Fl. Ind. ed. 1832. 3: 89. 1832.

Distribution: Arunachal Pradesh, Uttarakhand; 1500–3000 m.

Lippia L.

Lippia alba (Mill.) N.E.Br. ex Britton & P.Wilson, Bot. Porto Rico 6: 141. 1925. *Lantana alba* Mill.

Distribution: Arunachal Pradesh; 500–1300 m.

Lippia javanica (Burm.f.) Spreng., Syst. Veg. 2: 752. 1825. *Verbena javanica* Burm.f.

Distribution: Arunachal Pradesh; 200–600 m.

Petrea L.

Petrea volubilis L., Sp. Pl. 626. 1753.

Distribution: Uttarakhand; 400–1100 m.

Phyla Lour.

Phyla nodiflora (L.) Greene, Pittonia 4: 46. 1899. *Verbena nodiflora* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 200–1200 m.

Premna L.

Premna barbata Wall. ex Schauer, Prodr. 11: 636. 1847.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 200–1500 m. (Plate 295a)

Premna bengalensis C.B.Clarke., Fl. Brit. India 4: 577. 1885.

Distribution: Arunachal Pradesh, Sikkim; 100–900 m.

Premna bracteata Wall. ex C.B.Clarke., Fl. Brit. India 4: 572. 1885.

Distribution: Sikkim; upto 1000 m.

Premna coriacea C.B.Clarke., Fl. Brit. India 4: 573. 1885.

Distribution: Arunachal Pradesh; 200–600 m.

Premna corymbosa Rottler & Willd., Neue Schriften Ges. Naturf. Freunde Berlin 4: 187. 1803.

Distribution: Arunachal Pradesh; 400–1000 m.

Premna herbacea Roxb., Fl. Ind. ed. 1832. 3: 80. 1832.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 150–900 m.

Premna interrupta Wall. ex Schauer, Prodr. 11: 633. 1847.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2400 m.

Premna longifolia Roxb., Fl. Ind. ed. 1832. 3: 79. 1832.

Distribution: Arunachal Pradesh; 400–1200 m.

Premna lucidula Miq., Fl. Ned. Ind. 2: 898. 1858.

Distribution: Sikkim; upto 900 m.

Premna milleflora C.B.Clarke., Fl. Brit. India 4: 576. 1885.

Distribution: Arunachal Pradesh; 400–1600 m.

Premna mollissima Roth, Nov. Pl. Sp. 286. 1821.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 400–1500 m.

Premna punduana Wall. ex Schauer, DC., Prodr. 11: 637. 1847.

Distribution: Arunachal Pradesh; 400–1500 m.

Premna racemosa Wall. ex Schauer, DC., Prodr. 11: 633. 1847.

Distribution: Arunachal Pradesh; 1000–1600 m.

Premna scandens Roxb., Fl. Ind. 3: 82. 1832.

Distribution: Arunachal Pradesh, Sikkim; 100–700 m.

Pseudocaryopteris P.D.Cantino

Pseudocaryopteris bicolor (Roxb. ex Hardw.) P.D.Cantino, Syst. Bot. 23: 381. 1998 (publ. 1999). *Volkameria bicolor* Roxb. ex Hardw.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1200 m.

Pseudocaryopteris foetida (D.Don) P.D.Cantino, Syst. Bot. 23: 381. 1998 (publ. 1999). *Clerodendrum foetidum* D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 200–500 m.

(Plate 295b)

Pseudocaryopteris paniculata (C.B.Clarke) P.D.Cantino, Syst. Bot. 23: 381. 1998 (publ. 1999). *Caryopteris paniculata* C.B. Clarke.

Distribution: Arunachal Pradesh, Sikkim, Jammu & Kashmir; 300–1800 m.

Rothea Raf.

Rothea farinosa (Roxb.) Govaerts, World Checklist Seed Pl. 3(1): 15. 1999.
Volkameria farinosa Roxb.

Distribution: Arunachal Pradesh; 500–1300 m.

Rothea serrata (L.) Steane & Mabb., Novon 8: 206. 1998. *Volkameria serrata* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–1500 m.

Sphenodesme Jack

Sphenodesme pentandra Jack var. **wallichiana** (Schauer) Munir, Gard. Bull. Singapore 21: 360 1966. *S. wallichiana* Schauer.

Distribution: Arunachal Pradesh; 300–1000 m.

Stachytarpheta Vahl

Stachytarpheta jamaicensis (L.) Vahl, Enum. Pl. Obs. 1: 206. 1804. *Verbena jamaicensis* L.

Distribution: Arunachal Pradesh; 100–900 m.

Stachytarpheta mutabilis (Jacq.) Vahl, Enum. Pl. Obs. 1: 208. 1804. *Verbena mutabilis* Jacq.

Distribution: Himachal Pradesh; 500–1500 m.

Stachytarpheta urticifolia (Salisb.) Sims, Bot. Mag. 43: t. 1848. 1816. *Cymburus urticifolius* Salisb.

Distribution: Uttarakhand; 400–1500 m.

Tectona L.f.

Tectona grandis L.f., Suppl. Pl. 151. 1781.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 150–1200 m.

Verbena L.

Verbena bipinnatifida Nutt., J. Acad. Nat. Sci. Philadelphia 2(1): 123. 1821.

Distribution: Uttarakhand; 600–1400 m.

Verbena bonariensis L., Sp. Pl. 20. 1753.

Distribution: Himachal Pradesh, Uttarakhand; 500–1100 m.

Verbena officinalis L., Sp. Pl. 20. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 300–1800 m.

Volkameria L.

Volkameria heterophylla Poir., Encycl. 8: 687. 1808.

Distribution: Uttarakhand; 1100–1700 m.

Volkameria inermis L., Sp. Pl. 637. 1753.

Distribution: Uttarakhand; 500–1400 m.

Vitex L.

Vitex altissima L.f., Suppl. Pl. 294. 1782.

Distribution: Arunachal Pradesh; 300–900 m.

Vitex canescens Kurz, J. As. Soc. Bengal 2: 101. 1873.

Distribution: Arunachal Pradesh; 300–900 m.

Vitex glabrata R.Br., Prodr. 512.1810.

Distribution: Arunachal Pradesh; 500–1000 m.

Vitex heptaphylla A.Juss, Ann. Mus. Hist. Nat. 7: 7. 1806.

Distribution: Arunachal Pradesh, Sikkim; 400–1100 m.

Vitex negundo L., Sp. Pl. 638. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 400–1200 m.

Vitex peduncularis Wall. ex Schauer, Prodr. 11: 687. 1847.

Distribution: Arunachal Pradesh, Uttarakhand; 400–1000 m.

Vitex pinnata L., Sp. Pl. 638. 1753.

Distribution: Arunachal Pradesh; 400–1000 m.

Vitex quinata (Lour.) F.N.Williams, Bull. Herb. Boissier II, 5: 431. 1905. *Cornutia quinata* Lour.

Distribution: Arunachal Pradesh, Sikkim; 400–1200 m.

Vitex trifolia L., Sp. Pl. 638. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 500–1400 m.

VIOLACEAE

(3 genera; 38 taxa)

Hybanthus Jacq.

Hybanthus enneaspermus (L.) F.Muell., Fragm. 10: 81. 1876. *Viola enneasperma* L.

Distribution: Uttarakhand.

Rinorea Aubl.

Rinorea bengalensis (Wall.) Gagnep., Humbert. Observ. Bot. 1: 190. 1939. *Alsodela bengalensis* Wall.

Distribution: Arunachal Pradesh, Sikkim; 1500–1800 m.

Viola L.

Viola arcuata Blume, Bijdr. Fl. Ned. Ind. 2: 58. 1825.

Distribution: Sikkim.

Viola betonicifolia Sm., Cycl. 37(1): Viola no. 7: 1817.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 700–1500 m.

Viola biflora L., Sp. Pl. 936. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–2000 m. **(Plate 295c)**

Viola bulbosa Maxim, Mélanges Bot. 9: 748. 1876.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim.

Viola cameleo H. Boissieu, Bull. Herb. Boissier, sér. 2, 1(11): 1074. 1901.

Distribution: Sikkim.

Viola canescens Wall., Fl. Ind., ed. 1820 2: 450–451. 1824.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2500 m.

Viola cinerea Boiss. var. **stocksii** (Boiss.) W.Becker, Beih. Bot. Centralbl. 36–37. 1918. *V. stocksii* Boiss.

Distribution: Jammu & Kashmir.

Viola diffusa Ging., Prodr. 1: 298. 1824.

Distribution: Arunachal Pradesh, Sikkim; 1600–3000 m.

Viola fedtschenkoana W. Beck., Fl. Aziatsk. Ross. 8: 31. 1915.

Distribution: Jammu & Kashmir.

Viola fedtschenkoana W. Beck. var. **muzaffarabadensis** W.Becker, Beih. Bot. Centralbl. 40: 59. 1923.

Distribution: Jammu & Kashmir.

Viola glaucescens Oudem., Ann. Mus. Bot. Lugduno–Batavi 3: 74. 1867.

Distribution: Arunachal Pradesh, Sikkim; 3000–3500 m.

Viola hamiltoniana D.Don, Prodr. Fl.Nepal .206. 1825.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 500–1800 m.

Viola hediniana W.Becker, Beih. Bot. Centralbl. 34(2): 262–263. 1916.

Distribution: Arunachal Pradesh; 1500–2000 m.

Viola hookeri Thomson ex Hook.f., Fl. Brit. India 1: 183. 1872.

Distribution: Arunachal Pradesh, Sikkim; 1800–2500 m.

Viola inconspicua Blume, Bijdr. Fl. Ned. Ind. 2: 58. 1825.

Distribution: Arunachal Pradesh, Sikkim; 1500–2200 m.

Viola indica W.Becker, Beih. Bot. Centralbl. 20(2): 126. 1906.

Distribution: Jammu & Kashmir, Uttarakhand.

Viola jordanii Hanry, Prod. Hist. Nat. Var. 169. 1853.

Distribution: Jammu & Kashmir.

Viola kunawurensis Royle, Ill. Bot. Himal. Mts. 75, pl. 18, f. 3. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Viola macroceros Bunge, Fl. Altaic. 1: 256–257. 1829.

Distribution: Uttarakhand.

Viola moupinensis Franch., Bull. Soc. Bot. France 33: 412. 1886.

Distribution: Arunachal Pradesh, Sikkim; 600–3600 m.

Viola odorata L., Sp. Pl. 934. 1753.

Distribution: Jammu & Kashmir

Viola phillippica Cav., Icon. 6: 19. 1800.

Distribution: Uttarakhand.

Viola placida W.Becker, Beih. Bot. Centralbl. 36(2): 58. 1918.

Distribution: Sikkim.

Viola pilosa Blume, Catalogus 57. 1823.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1300–1500 m.

Viola reichenbachiana Jord. ex Boreau, Fl. Centre France ed. 3, 2: 78. 1857.

Distribution: Jammu & Kashmir.

Viola repens Schwein., Amer. J. Sci. Arts 5(1): 70–71. 1822.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Viola rupestris F.W.Schmidt, Neuere Abh. Königl. Böhm. Ges. Wiss. 1: 60. 1791.

Distribution: Arunachal Pradesh, Jammu & Kashmir; 800–1500 m.

Viola rupestris F.W.Schmidt var. **himalayensis** S.P.Banerjee & Pramanik, Fasc. Fl. India 12: 33. 1983.

Distribution: Jammu & Kashmir.

Viola sikkimensis W.Becker, Beih. Bot. Centralbl. 34(2): 260. 1916.

Distribution: Arunachal Pradesh, Sikkim; 1200–1600 m.

Viola suavis M.Bieb., Fl. Taur.–Caucas. 3: 164. 1819.

Distribution: Jammu & Kashmir.

Viola sylvatica Fr. ex Hartm., Bot. Not. 81. 1841.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Viola tienschiensis W.Becker, Repert. Spec. Nov. Regni Veg. 17: 314. 1921.

Distribution: Jammu & Kashmir, Uttarakhand.

Viola thomsonii Oudem., Ann. Mus. Bot. Lugduno–Batavi 3: 74. 1867.

Distribution: Arunachal Pradesh, Sikkim; 1800–3000 m.

Viola tricolor L., Sp. Pl. 935. 1753.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Viola wallichiana Ging., Prodr. 1: 300. 1824.

Distribution: Sikkim; 2000–4000 m.

Viola yunnanensis Becker & Boiss., Bull. Herb. Boissier, sér. 2, 8: 740. 1908.

Distribution: Arunachal Pradesh; 1800–3500 m.

VITACEAE
(8 genera; 44 taxa)

Ampelocissus Planch

Ampelocissus barbata (Wall.) Planch., Monogr. Phan. 5: 372. 1887. *Vitis barbata* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–1500 m.

Ampelocissus divaricata (Lawson) Planch., Vigne Amer. Vitic. Eur. 8: 375. 1884. *Vitis divaricata* Lawson.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 500–1500 m.

Ampelocissus latifolia (Roxb.) Planch., Vigne Amer. Vitic. Eur. 8: 374. 1884. *Vitis latifolia* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Ampelocissus sikkimensis (M.A.Lawson) Planch., Vigne Amer. Vitic. Eur. 8: 375. 1884. *Vitis sikkimensis* M.A.Lawson

Distribution: Arunachal Pradesh, Sikkim; 1700–2000 m.

Ampelocissus rugosa (Wall.) Planch., Vigne Amer. Vitic. Eur. 8: 374. 1884. *Vitis rugosa* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Ampelocissus tomentosa (Roth) Planch., Vigne Amer. Vitic. Eur. 8: 375. 1884. *Vitis tomentosa* Roth.

Distribution: Uttarakhand.

Ampelopsis Michx

Ampelopsis glandulosa (Wall.) Momiy., Bull. Univ. Mus. Univ. Tokyo 2: 78. 1971. *Vitis glandulosa* Wall.

Distribution: Arunachal Pradesh, Sikkim.

Ampelopsis vitifolia (Boiss.) Planch., Monogr. Phan. 5: 454. 1887. *Vitis persica* Boiss.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Cayratia Juss.

Cayratia geniculata (Blume) Gagnep., Notul. Syst. (Paris) 1: 345. 1911. *Cissus geniculata* Blume.

Distribution: Sikkim.

Cayratia japonica (Thunb.) Gagnep., Notul. Syst. (Paris) 1: 349. 1911. *Vitis japonica* Thunb.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

(Plate 296a)

Cayratia mollissima (Wall.) Gagnep., Notul. Syst. (Paris) 1: 345. 1911. *Vitis mollissima* Wall.

Distribution: Arunachal Pradesh; 100–500 m.

Cayratia pedata (Lam.) Gagnep., Notul. Syst. (Paris) 1: 346. 1911. *Cissus pedata* Lam..

Distribution: Arunachal Pradesh; 500–1000 m.

Cayratia trifolia (L.) Domin, Biblioth. Bot. 89. 370. 1927. *Vitis trifolia* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand; 1200–1500 m.

(Plate 296b)

Cissus L.

Cissus adnata Roxb., Fl. Ind. 1: 405. 1820.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1400–1700 m.

Cissus aristata Blume, Bijdr. Fl. Ned. Ind. 183. 1825.

Distribution: Sikkim.

Cissus assamica (M.A.Lawson) Craib, Kew Bull. 1911: 30. 1911. *Vitis assamica* M.A.Lawson

Distribution: Arunachal Pradesh, Sikkim; 600–1500 m.

Cissus elongata Roxb., Fl. Ind. 1: 411. 1820.

Distribution: Sikkim.

Cissus heyneana Planch., Monogr. Phan. 5: 476. 1887.

Distribution: Arunachal Pradesh; 500–1200 m.

Cissus javana DC., Prodr. 1: 628. 1824.

Distribution: Arunachal Pradesh, Sikkim; 400–1400 m.

Cissus repanda Vahl., Symb. Bot. 3: 18. 1794.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1100 m.

Cissus repens Lam., Encycl. Meth. Bot. 1: 31. 1783.

Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

Cissus spectabilis Hochst. ex Planch., DC., Monogr. Phan. 5: 609. 1887.

Distribution: Sikkim.

Cyphostemma (Planch.) Alston

Cyphostemma auriculatum (Roxb.) P. Singh & Shetty, Taxon 35: 596. 1986. *Cissus auriculata* Roxb.

Distribution: Sikkim.

Parthenocissus Planch.

Parthenocissus semicordata (Wall.) Planch., Monogr. Phan. 5: 451. 1887. *Vitis semicordata* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1400–1500 m.

Parthenocissus semicordata (Wall.) Planch. var. **roylei** (King ex R.Parker) Nazimuddin & Qaiser, Nasir & Ali, Fl. Pakistan 147: 10. 1982. *Vitis semicordata* Wall. var. *roylei* King ex R.Parker

Distribution: Himachal Pradesh, Uttarakhand.

Tetrastigma (Miq.) Planch.

Tetrastigma affine (Gagnep. ex Osmaston) Raizada & H.O. Saxena, Indian For. 92: 325 1966. *Vitis affinis* Gagnep. ex Osmaston

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Tetrastigma bracteolatum (Wall.) Planch., Monogr. Pbau.5: 428. 1887. *Vitis bracteolata* Wall.

Distribution: Arunachal Pradesh, Sikkim; 700–1800 m.

Tetrastigma campylocarpum (Kurz) Planch., Monogr. Phan. 5: 437. 1887. *Vitis campylocarpa* Kurz

Distribution: Sikkim, Uttarakhand.

Tetrastigma dubium (M.A.Lawson) Planch., Monogr. Phan. 5: 437. 1887. *Vitis dubia* M.A.Lawson

Distribution: Arunachal Pradesh, Sikkim; 300–800 m.

Tetrastigma hookeri (M.A.Lawson) Planch., Monogr. Phan. 5: 428. 1887. *Vitis hookeri* M.A.Lawson

Distribution: Sikkim.

Tetrastigma lanceolarium (Roxb.) Planch., DC., Monogr. Phan. 5: 423. 1887. *Cissus lanceolaria* Roxb.

Distribution: Arunachal Pradesh; 600–1200 m.

Tetrastigma leucostaphylum (Dennst.) Alston, Taxon 26: 539. 1977. *Vitis leucostaphylum* Dennst.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1500 m.

Tetrastigma obovatum Gagnep., Notul. Syst. 1(9): 266. 1910.

Distribution: Arunachal Pradesh; 1200–1500 m.

Tetrastigma obtectum (Wall. ex Lawson) Planch. ex Franch., Monogr. Phan. 5: 434. 1887. *Vitis obtecta* Wall. ex Lawson

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1600–2000 m.

Tetrastigma planicaule (Hook.f.) Gagnep., Notul. Syst. 1: 319. 1910. *Vitis planicaulis* Hook.f.

Distribution: Arunachal Pradesh; 200–600 m.

Tetrastigma rumicispermum (M.A.Lawson) Planch., Monogr. Phan. 5: 429. 1887. *Vitis rumicisperma* M.A.Lawson

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 500–1200 m.

Tetrastigma serrulatum (Roxb.) Planch., DC. Monogr. Phan. 5: 432. 1887. *Cissus serrulata* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–2000 m.

Tetrastigma thomsonianum Planch., Monogr. Phan. 5: 438. 1887.

Distribution: Arunachal Pradesh; 100–600 m.

Vitis L.

Vitis flexuosa Thunb., Trans. Linn. Soc. London. 2: 332. 1794.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Vitis heyneana Roem. & Schult., Syst. Veg. 5: 318. 1819.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Vitis heyneana Roem. & Schult. var. **glabra** (R.Parker) Naithani & Biswas, Flow. Pl. India, Nepal & Bhutan 99. 1990. *V. lanata* Roxb. var. *glabra* R.Parker.

Distribution: Himachal Pradesh.

Vitis jacquemontii R.Parker, Forest Fl. Punjab 2: 559. 1924.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Vitis pedicellata M.A.Lawson, Hook.f., Fl. Brit. India 1: 650. 1875.

Distribution: Uttarakhand.

Vitis vinifera L. Sp. Pl. 292. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

ZYGOPHYLLACEAE

(2 genera; 3 taxa)

Balanites Delile

Balanites aegyptiaca (L.) Delile, Descr. Egypte, Hist. Nat. 221. 1813. *Ximenia aegyptica* L.

Distribution: Sikkim, Uttarakhand.

Balanites roxburghii Planch., Ann. Sci. Nat. Bot. IV Ser. 4. 2: 258. 1854.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Tribulus L.

Tribulus terrestris L. Sp. Pl. 387. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 3700 m.

ENUMERATIONS TO PLANTS MONOCOTYLEDON

ACORACEAE

(1 genera; 2 taxa)

Acorus L.

Acorus calamus L., Sp. Pl. 324. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand,
West Bengal (Darjeeling); 500–1000 m. **(Plate 298a)**

Acorus gramineus Aiton, Hort. Kew. 1: 474. 1789.

Distribution: Sikkim.

AGAVACEAE

(1 genera; 6 taxa)

Agave L.

Agave americana L., Sp. Pl. 323. 1753.

Distribution: Himalaya. **(Plate 297a)**

Agave cantala Roxb. Fl. Ind. ed. 2. 2: 167. 1832.

Distribution: Himalaya.

Agave decipiens Baker, Bull. Misc. Inform. Kew 1892: 184. 1892.

Distribution: Uttarakhand.

Agave sisalana Perrine, Cogn. Doc. 564: 87. 1838.

Distribution: Sikkim, Uttarakhand.

Agave vera-cruz Mill., Gard. Diet. ed. 8: 7. 1754.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1220–1300 m.

Agave vivipara L., Sp. Pl. 323. 1753.

Distribution: Uttarakhand, Himachal Pradesh; 460 m.

ALISMATACEAE

(4 genera; 13 taxa)

Alisma L.

Alisma gramineum Lej., Fl. Spa 1: 175. 1811.

Distribution: Jammu & Kashmir.

Alisma lanceolatum With., Bot. Arr. Brit. Pl. ed. 3 (II): 362. 1796.

Distribution: Uttarakhand

Alisma plantago-aquatica L., Sp. Pl. 342. 1753. subsp. **plantago-aquatica**

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, 1200–1600 m.

Alisma plantago-aquatica subsp. **orientale** (Sam.) Sam., Ark. Bot. 24A(7): 16. 1932.

Distribution: Jammu & Kashmir.

Butomopsis Kunth

Butomopsis latifolia (D.Don) Kunth, Enum.Pl. 3: 165. 1841. *Butomus latifolius* D. Don

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 400–800 m.

Caldesia Parl.

Caldesia grandis Sam., Svensk Bot. Tidskr. 24: 116. 1930.

Distribution: Sikkim.

Caldesia oligococca (F.Muell.) Buchanan, Bot. Jahrb. Syst. 2: 479. 1882.

Distribution: Sikkim.

Caldesia parnassifolia (L.) Parl., Fl. Ital. 3: 599. 1860. *Alisma parnassifolium* L.

Distribution: Uttarakhand.

Caldesia reniformis (D.Don) Makino, Bot. Mag. (Tokyo) 20: 34. 1906.

Distribution: Himalaya.

Sagittaria L.

Sagittaria guayanensis Kunth, Nov. Gen. & Sp. Pl. 1: 250. 1816. subsp. **guayanensis**

Distribution: Himachal Pradesh.

Sagittaria guayanensis Kunth subsp. **lappula** (D.Don) Bogin, Mem. N.Y. Bot.

Gard. 9: 192, f. 5. 1955. *S. lappula* D.Don

Distribution: Arunachal Pradesh, Uttarakhand; 100–1000 m.

Sagittaria longiloba Engelm. ex J.G.Sm., N. Amer. Sagittaria 16. 1894.

Distribution: Jammu & Kashmir.

Sagittaria trifolia L., Sp. Pl. 993. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 300–1600 m.

AMARYLLIDACEAE

(5 genera; 18 taxa)

Amaryllis L.

Amaryllis belladonna L., Sp. Pl. 293. 1753.

Distribution: Uttarakhand.

Crinum L.

Crinum amoenum Ker Gawl. ex Roxb., J. Sci. Arts London 3: 106. 1817.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1800 m.

Crinum asiaticum L., Sp. Pl. 292. 1753.

Distribution: Uttarakhand.

Crinum humile Herb., Bot. Mag. 53: t. 2636. 1826.

Distribution: Himalaya.

Crinum latifolium L., Sp. Pl. 291. 1753.

Distribution: Himalaya. (**Plate 297b**)

Crinum lorifolium Roxb., J. Sci. Arts (London) 3: 110. 1817.

Distribution: Arunachal Pradesh; upto 500 m.

Crinum stracheyi Baker, Gard. Chron. 16: 72. 1881.

Distribution: Uttarakhand.

Crinum viviparum (Lam.) R. Ansari & V.J. Nair., J. Econ. Taxon. Bot. 11: 205. 1987. *Amaryllis vivipara* Lam.

Distribution: Uttarakhand.

Crinum wattii Baker, Handb. Amaryllid. 76. 1888.

Distribution: Arunachal Pradesh; upto 1200 m.

Narcissus L.

Narcissus tazetta L. Sp. Pl. 290. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Pancratium L.

Pancratium biflorum Roxb., Fl. Ind. ed. 1832 2: 125. 1832.

Distribution: Himalaya.

Pancratium verecundum Aiton, Hort. Kew. 1: 412. 1789.

Distribution: Sikkim, Uttarakhand; 500 m.

Pancratium zeylanicum L., Sp. Pl. 290 1753.

Distribution: Himalaya.

Zephyranthes Herb.

Zephyranthes candida (Lindl.) Herb. Bot. Reg. 821. 1824. *Amaryllis candida* Lindl.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1750 m.

Zephyranthes carinata Herb., Curtis. Bot. Mag. 52: t.2594. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2000 m.

Zephyranthes citrina Baker, Bot. Mag. 108: pl. 6605. 1882.

Distribution: Uttarakhand.

Zephyranthes minuta (Kunth) D. Dietr., Syn. Pl. 2: 1176. 1840. *Amaryllis minuta* Kunth

Distribution: Uttarakhand.

Zephyranthes rosea Lindl., Bot. Reg. 10: t. 821. 1824.

Distribution: Uttarakhand.

ARACEAE

(24 genera; 100 taxa)

Aglaonema Schott**Aglaonema hookerianum** Schott, Bonplandia 7: 30. 1859.

Distribution: Arunachal Pradesh, Darjeeling; 400–1200 m.

Alocasia (Schott) G.Don**Alocasia cucullata** (Lour.) G.Don, Hort. Brit. ed. 3: 631. 1839. *Arum cucullatum* Lour.

Distribution: Sikkim.

Alocasia fallax Schott, Bonplandia 7: 28. 1859.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Alocasia fornicata (Roxb.) Schott, Oestr. Bot. Wochenbl. 4: 410. 1854. *Arum fornicatum* Roxb.

Distribution: Arunachal Pradesh; 300–1000 m.

(Plate 298b)

Alocasia macrorrhiza (L.) G.Don, Hort. Brit. ed. 3: 631. 1839. *Arum macrorrhizon* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 400–1500 m.

Alocasia navicularis (K.Koch. & C.D.Bouché) K.Koch. & C.D.Bouché, Index Sem. Hort. Berol. 1855. *Colocasia navicularis* K.Koch. & C.D.Bouché

Distribution: Sikkim; 450 m.

Alocasia odora (Lindl.) Koch. & Bouche, Index Sem. Hort. Berol. App. 5. 1855. *Caladium odorum* Lindl.

Distribution: Sikkim, West Bengal (Darjeeling); 400 m.

Amorphophallus Blume ex Decne.**Amorphophallus bognerians** Sivad. & Jaleel, Aroideana 32: 136. 2009.

Distribution: Arunachal Pradesh.

Amorphophallus bulbifer (Roxb.) Blume, Rumphia 1: 148. 1837. *Arum bulbiferum* Roxb.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 400–1400 m.

Amorphophallus commutatus (Schott) Engler, Monogr. Phan. 2: 319. 1879. *Conophallus commutatus* Schott.

Distribution: Arunachal Pradesh.

Amorphophallus margaritifer (Roxb.) Kunth, Enum. Pl. 2: 34. 1837. *Arum margaritiferum* Roxb.

Distribution: Uttarakhand.

Amorphophallus napalensis (Wall.) Bogner & Mayo. *Aroideana* 8: 19. 1985 (publ. 1986). *Thomsonia nepalensis* Wall.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–1500 m.

Amorphophallus paeoniifolius (Dennst.) Nicolson, *Taxon* 26: 338. 1977. *Dracontium paeoniifolium* Dennst.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1000 m.

Amorphophallus sylvaticus (Roxb.) Kunth, *Enum. Pl.* 3: 34. 1841. *Arum sylvaticum* Roxb.

Distribution: Uttarakhand.

Ariopsis Nimmo

Ariopsis peltata Nimmo., *Cat. Pl. Bombay* 252. 1839.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 460–1800 m.

Arisaema Mart.

Arisaema album N.E.Br., *J. Linn. Soc., Bot.* 18: 247. 1882.

Distribution: Arunachal Pradesh.

Arisaema arunachalensis A.Nangkar, A.P. Das & H.Tag, *Pleione* 11(2): 480 - 484. 2017.

Distribution: Arunachal Pradesh.

Arisaema bannaense H.Li, *Bull. Bot. Res., Harbin* 8 (3): 101. 1988.

Distribution: Arunachal Pradesh; 3000 m.

Arisaema caudatum Engl., *Monogr. Phan.* 2: 559. 1879.

Distribution: Himachal Pradesh.

Arisaema concinnum Schott, *Bonplandia* 7: 27. 1859.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–2000 m.

Arisaema consanguineum Schott, *Bonplandia* 7: 27. 1859.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2000 m.

Arisaema costatum (Wall.) Mart., *Flora* 14: 458. 1831. *Arum costatum* Wall.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2000–3000 m.

Arisaema decipiens Schott, *Oestr. Bot. Wochenbl.* 7: 373. 1857.

Distribution: Arunachal Pradesh, Himachal Pradesh; 500–2200 m. (**Plate 298c**)

Arisaema echinatum (Wall.) Schott., *Melet.* 1: 7. 1832. *Arum echinatum* Wall.

Distribution: Sikkim; 2740–3050 m.

Arisaema erubescens (Wall.) Schott, *Melet.* 1: 17. 1832. *Arum erubescens* Wall.

Distribution: Sikkim; 1800–2400 m.

Arisaema flavum (Forssk.) Schott, *Prodr.* 40. 1860. *Arum flavum* Forssk.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2190–3700 m.

Arisaema galeatum NE. Br., Gard. Chron. 12: 102. 1879.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2100 m.

Arisaema gracilentum Brugg., Blumea 61(2): 87. 2016.

Distribution: Arunachal Pradesh; 2200 m.

Arisaema griffithii Schott, Syn. Aroid. 26. 1856.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2290–3700 m.

(Plate 298d)

Arisaema intermedium Blume, Rumphia 1: 102. 1836.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Arisaema jacquemontii Blume, Rumphia 1: 95. 1836.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2290–4270 m.

Arisaema leschenaultii Blume, Rumphia 1: 93. 1836.

Distribution: Uttarakhand.

Arisaema linyunense H.Li, Acta Phytotax. Sin. 15(2): 107. 1977.

Distribution: Arunachal Pradesh.

Arisaema nepenthoides (Wall.) Mart., Flora 14: 458. 1831. *Arum nepenthoides* Wall.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–3000 m.

(Plate 299a)

Arisaema ochraceum Schott, Bonplandia (Hannover) 7: 27. 1859.

Distribution: Sikkim.

Arisaema petiolulatum Hook.f., Fl. Brit. India 6: 498. 1893.

Distribution: Arunachal Pradesh; 500–1500 m.

Arisaema propinquum Schott, Oesterr. Bot. Wochenbl. 7: 333. 1857.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–2000 m.

Arisaema roxburghii Kunth, Enum. Pl. 3: 18. 1841.

Distribution: Arunachal Pradesh; 500–1000 m.

Arisaema setosum A.Sudh.Rao & D.M.Verma, Bull. Bot. Surv. India 11 (1&2): 196. 1969.

Distribution: Arunachal Pradesh.

Arisaema siangense Gusman, Syst. Geogr. Pl. 76: 229. 2006.

Distribution: Arunachal Pradesh.

Arisaema speciosum (Wall.) Mart., Flora 14: 458. 1831. var. **speciosum**. *Arum speciosum* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 460–3050 m.

Arisaema speciosum (Wall.) Mart. var. **mirabile** (Schott) Engl., Monogr. Phan. 2: 540. 1879. *A. mirabile* Schott

Distribution: Sikkim; 2100–3100 m.

Arisaema speciosum (Wall.) Mart. var. **zeroense** Gusman, Syst. Geogr. Pl. 73: 66. 2003.

Distribution: Arunachal Pradesh.

Arisaema tortuosum (Wall.) Schott., Meletem. Bot. 1: 17. 1832. *Arum tortuosum* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 700–1700 m.

Arisaema utile Hook.f. ex Schott, Prodr. Syst. Aroid. 30. 1860.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2440–3960 m.

Arisaema wattii Hook.f., Fl. Brit. India 6: 498. 1893.

Distribution: Arunachal Pradesh; 1200–2200 m.

Arum L.

Arum jacquemontii Blume, Rumphia 1: 118. 1836.

Distribution: Jammu & Kashmir, Uttarakhand.

Caladium Vent.

Caladium bicolor (Aiton) Vent. Mag. Encycl. 4: 464. 1800. *Arum bicolor* Aiton

Distribution: Uttarakhand.

Colocasia Schott

Colocasia affinis Schott, Bonplandia 7: 28. 1859.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1200 m.

Colocasia antiquorum Schott, Melet. Bot. 18. 1832.

Distribution: Arunachal Pradesh, 200–400 m.

Colocasia boyceana Gogoi & Bohra, Gard. Bull. Singapore 65(1): 27. 2013.

Distribution: Arunachal Pradesh; 1600 m.

Colocasia dibangensis Gogoi & Bohra, Gard. Bull. Singapore 65(1): 31. 2013.

Distribution: Arunachal Pradesh; 2129 m.

Colocasia esculenta (L.) Schott., Meletem. Bot. 1: 18. 1832. *Arum esculentum* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1400 m.

Colocasia fallax Schott., Bonplandia 7: 28. 1859

Distribution: Sikkim, Uttarakhand; 400–2000 m.

Colocasia lihengiae C.L.Long & K.M.Liu, Bot. Bull. Acad. Sin. 42: 313. 2001.

Distribution: Arunachal Pradesh.

Colocasia manni Hook.f., Fl. Brit. India 6: 524. 1893.

Distribution: Arunachal Pradesh.

Epipremnum Schott

Epipremnum aureum (Linden & André) G.S.Bunting, Ann. Missouri Bot. Gard. 50: 28. 1964. *Pothos aureus* Linden & André

Distribution: Uttarakhand.

Homalomena Schott

Homalomena aromatica (Spreng.) Schott., Meletem.Bot. 20. 1832.

Zantedeschia aromatica Spreng.

Distribution: Arunachal Pradesh; 100–1000 m.

Homalomena pendula (Blume) Bakh.f., Bakn. Fl. Java. 27: 31. 1957. *Calladium pendulum* Blume

Distribution: Arunachal Pradesh.

Lagenandra Dalzell

Lagenandra undulata Sastry, Bull. Bot. Surv. India 9: 294. 1968.

Distribution: Arunachal Pradesh; 1200 m.

Lasia Lour.

Lasia spinosa (L.) Thw., Enum. Pl. Zeyl. 336. 1864. *Dracontium spinosum* L.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1500 m.

(Plate 299b)

Monstera Adans.

Monstera deliciosa Liebm., Vidensk. Meddel. Naturhist. Foren. Kjøbenhavn 1: 19. 1849.

Distribution: Uttarakhand.

Philodendron Schott

Philodendron giganteum Schott, Syn. Aroid. 89. 1856.

Distribution: Uttarakhand.

Pistia L.

Pistia stratiotes L., Sp. Pl. 963. 1753.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1200 m.

Pothos L.

Pothos chinensis (Raf.) Merr., J. Arnold Arbor. 29: 210. 1948. *Tapanava chinensis* Raf.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1000 m.

Pothos junghuhnii de Vriese, Pl. Jungh. 104. 1851.

Distribution: Arunachal Pradesh; 500–1500 m.

Pothos macrocephalus Schott ex Hook.f., Fl. Brit. India 6: 553. 1893.

Distribution: Arunachal Pradesh.

Pothos roxburghii de Vriese, Pl. Jungh. 103. 1851.

Distribution: Sikkim; 300–1200 m.

Pothos scandens L., Sp. Pl. 968. 1753.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1000 m.

Remusatia Schott

Remusatia hookeriana Schott, Oester. Bot. Wochenb. 7: 133. 1857.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1370–2660 m.

Remusatia pumila (D.Don) H.Li & A.Hary, Acta Bot. Yuni, Suppl. 5. 28. 1992.

Caladium pumillum D. Don

Distribution: Arunachal Pradesh, Sikkim; 1200–2400 m.

Remusatia vivipara (Roxb.) Schott., Meletem. Bot. 18. 1832. *Arum viviparum* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–2000 m.

Rhaphidophora Hassk.

Rhaphidophora affinis Schott, Prodr. Syst. Aroid. 385. 1860.

Distribution: Sikkim.

Rhaphidophora beccarii Engl., Bot. Jahrb. 1: 181. 1881.

Distribution: Arunachal Pradesh.

Rhaphidophora calophylla Schott, Bonplandia 5: 45. 1857.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Rhaphidophora decursiva (Roxb.) Schott, Bonplandia 5: 45. 1857. *Pothos decursivus* Roxb.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1800 m.

Rhaphidophora eximia Schott, Bonplandia (Hannover) 5: 45. 1857.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Rhaphidophora glauca (Wall.) Schott, Bonplandia 5: 45. 1857. *Pothos glaucus* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–1500 m.

Rhaphidophora hongkongensis Schott, Bonplandia 5: 44. 1857.

Distribution: Arunachal Pradesh.

Rhaphidophora hookeri Schott, Bonplandia 5: 45. 1857.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–2200 m.

Rhaphidophora korthalsii Schott., Ann. Mus. Lugd. Bat. 1: 129. 1863.

Distribution: Arunachal Pradesh; 1500–2200 m.

Rhaphidophora peepla (Roxb.) Schott, Bonplandia 5: 45. 1857. *Pothos peepla* Roxb.

Distribution: Arunachal Pradesh; 500–1500 m.

Rhaphidophora pertusa (Roxb.) Schott, Bonplandia (Hannover) 5: 45. 1857.

Pothos pertusus Roxb.

Distribution: Uttarkhand.

Sauromatum Schott

Sauromatum brevipes (Hook.f.) N.E.Br., Gard. Chron. III, 1903 (2): 93. 1903.

Typhonium brevipes Hook.f.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1520–2740 m.

Sauromatum diversifolium (Wall. ex Schott) Cusimano & Hett., Taxon 59: 445. 2010.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2290–3660 m.

Sauromatum horsfieldii Miq., Fl. Ned. Ind. 3: 196. 1856.

Distribution: Jammu & Kashmir, Uttarakhand.

Sauromatum nangkareense A. Nangkar & H.Tag. Pleione 12(1): 87. 2018.

Distribution: Arunachal Pradesh.

Sauromatum venosum (Dryand. ex Aiton) Kunth, Enum. Pl. 3: 28. 1841. *Arum venosum* Dryand. ex Aiton.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 1850 m.

Scindapsus Schott

Scindapsus officinalis (Roxb.) Schott., Meletem. Bot. 21. 1832. *Pothos officinalis* Roxb.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300 m.

Stuednera K.Koch

Stuednera assamica Hook.f., Fl. Brit. India 6: 520. 1893.

Distribution: Arunachal Pradesh; 1000–2000 m.

(Plate 299c)

Stuednera capitellata Hook.f., Fl. Brit. India 6: 521. 1893.

Distribution: Arunachal Pradesh; 400–1400 m.

Stuednera colocasioides Hook.f., Fl. Brit. India 6: 520. 1893.

Distribution: Arunachal Pradesh, Sikkim.

Stuednera discolor W.Bull, Gard. Chron. 708. 1875.

Distribution: Arunachal Pradesh.

Stuednera gagei K.Krause, Pflanzenr. IV, 23E: 15. 1920.

Distribution: Arunachal Pradesh.

Stuednera griffithii (Schott) Hook.f., Fl. Brit. India 6: 520. 1893. *Gonatanthus griffithii* Schott

Distribution: Arunachal Pradesh; 500–1000 m.

Typhonium Schott

Typhonium flagelliforme (Lodd.) Blume, Rumphia 1: 134. 1837.

Distribution: Himachal Pradesh.

Typhonium roxburghii Schott, Aroideae 1: 12. 1853.

Distribution: Uttarakhand.

Typhonium trilobatum (L.) Schott, Z. Kunst. 3: 72. 1829. *Arum trilobatum* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 100–1000 m.

Xanthosoma Schott

Xanthosoma brasiliense (Desf.) Engl. Pflanzenr. IV, 23 E: 58. 1920. *Caladium brasiliense* Desf.

Distribution: Sikkim, West Bengal (Darjeeling); 1700 m.

Zantedeschia Spreng.

Zantedeschia aethiopica (L.) Spreng. Syst. Veg. 3: 765. 1826. *Calla aethiopica* L.

Distribution: Uttarakhand.

ARECACEAE
(16 genera; 63 taxa)

Areca L.

Areca catechu L., Sp. Pl. 1189. 1753

Distribution: Sikkim, West Bengal (Darjeeling); 500 m.

(Plate 300a)

Arenga Labill.

Arenga micrantha C.F.Wei, Acta Phytotax. Sin. 36: 404. 1988.

Distribution: Arunachal Pradesh, Sikkim.

Arenga obtusifolia Mart., Hist. Nat. Palm. 3: 191. 1838.

Distribution: Arunachal Pradesh.

Arenga pinnata (Wurmb) Merr., Interpr. Rumph. Herb. Amboin. 119. 1917.

Saguerus pinnatus Wurmb

Distribution: Arunachal Pradesh; 600–1100 m.

Arenga westerhoutii Griff., Calcutta J. Nat. Hist. 5: 474. 1845.

Distribution: Arunachal Pradesh.

Borassus L.

Borassus flabellifer L., Sp. Pl. 1187. 1753.

Distribution: Himalaya.

Calamus L.

Calamus acanthospathus Griff., *Calcutta J. Nat. Hist.* 5: 39. 1845.

Distribution: Arunachal Pradesh, Sikkim; 800–1700 m.

Calamus erectus Roxb., *Fl. Ind.* 3: 774. 1832.

Distribution: Arunachal Pradesh, Sikkim; 9000–1500 m.

Calamus erectus var. **schizospathus** (Griff.) Becc., *Ann. Roy. Bot. Gard. (Calcutta)* 11: 125. 1908. *Calamus schizospathus* Griff.

Distribution: Arunachal Pradesh, Sikkim.

Calamus flagellum Griff. ex Mart., *Mart. Hist. Nat. Palm.* 3: 333, t. 176.f. 9. 1849.

Distribution: Arunachal Pradesh, Sikkim; upto 500 m.

Calamus floribundus Griff., *Calcutta J. Nat. Hist.* 5: 56. 1845.

Distribution: Arunachal Pradesh; 100–1500 m.

Calamus gracilis Roxb., *Fl. Ind.* 3: 781. 1832.

Distribution: Arunachal Pradesh; upto 1600 m.

Calamus latifolius Roxb., *Fl. Ind.* 3: 775. 1832.

Distribution: Arunachal Pradesh, Sikkim; 100–1000 m.

Calamus latifolius var. **marmoratus** Becc., *Ann. Roy. Bot. Gard. (Calcutta)* 12: 107. 1918.

Distribution: Sikkim.

Calamus leptospadix Griff., *Calcutta J. Nat. Hist.* 5: 49. 1844.

Distribution: Arunachal Pradesh, Sikkim; upto 1200 m.

Calamus nambariensis Becc., *Ann. Roy. Bot. Gard. (Calcutta)* 11(1): 433. 1908.

Distribution: Arunachal Pradesh, Sikkim.

Calamus pseudoerctus S.Mondal, S.K.Basu & M.Chowdhary, *J. Threat. Taxa* 11(5): 13605–13610. 2019.

Distribution: West Bengal (Darjeeling).

Calamus tenuis Roxb., *Fl. Ind.* ed. 1832, 3: 780. 1832.

Distribution: Uttarakhand.

Calamus viminalis Willd., *Sp. Pl.* 2: 203. 1799.

Distribution: Sikkim.

Caryota L.

Caryota maxima Blume ex Mart., *Hist. Nat. Palm.* 3: 195. 1838.

Distribution: Arunachal Pradesh, Sikkim.

Caryota mitis Lour., *Fl. Cochinch.* 697. 1790.

Distribution: Uttarakhand.

Caryota obtusa Griff., *Calcutta J. Nat. Hist.* 5: 480. 1845.

Distribution: Arunachal Pradesh.

Caryota urens L., Sp. Pl. 1189. 1753.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 800 m.

Cocos L.

Cocos nucifera L., Sp. Pl. 1188. 1753.

Distribution: Arunachal Pradesh, Sikkim; 400 m.

Daemonorops Blume

Daemonorops jenkinsiana (Griff.) Mart., Hist. Nat. Palm. 3: 327. 1853. *Calamus jenkinsianus* Griff.

Distribution: Sikkim.

Licuala Wurmbr.

Licuala peltata Roxb. ex Buch.-Ham, Mem. Wern. Nat. Hist. Soc. 5: 313. 1826.

Distribution: Arunachal Pradesh; upto 500 m. (Plate 300c)

Licuala spinosa Wurmbr., Kongl. Vetensk. Acad. Nya Handl. 3: 287. 1782.

Distribution: Arunachal Pradesh.

Livistona R. Br.

Livistona chinensis (Jacq.) R.Br. ex Mart., Hist. Nat. Palm. 3: 240. 1838. *Latania chinensis* Jacq.

Distribution: Uttarakhand.

Livistona jenkinsiana Griff., Calcutta J. Nat. Hist. 5: 334. 1845.

Distribution: Arunachal Pradesh, Sikkim. (Plate 300b)

Phoenix L.

Phoenix acaulis Roxb., Pl. Coromandel 3: 69. 1820.

Distribution: Sikkim, Uttarakhand; upto 1600 m.

Phoenix dactylifera L., Sp. Pl. 1188. 1753.

Distribution: Uttarakhand.

Phoenix loureiroi Kunth, Enum. Pl. 3: 257. 1841.

Distribution: Sikkim, Uttarakhand; 500 m.

Phoenix loureiroi var. **pedunculata** (Griff.) Govaerts, World Checklist Palms 171. 2005. *Phoenix pedunculata* Griff.

Distribution: Himachal Pradesh.

Phoenix rupicola T.Anderson, J. Linn. Soc. Bot. 11: 13. 1869.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 450 m.

Phoenix sylvestris (L.) Roxb., Fl. Ind. 3: 787. 1832. *Elate sylvestris* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; ca 500 m.

Pinanga Blume

Pinanga gracilis Blume, Rumph. 2: 77. 1839.

Distribution: Arunachal Pradesh, Sikkim; upto 800 m. (Plate 301a)

Plectocomia Mart. ex Schult. & Schult.f.

Plectocomia assamica Griff., Calcutta J. Nat. Hist. 5: 97. 1845.

Distribution: Arunachal Pradesh.

Plectocomia bractealis Becc., Ann. Roy. Bot. Gard. (Calcutta) 12(2): 40. 1918.

Distribution: Arunachal Pradesh.

Plectocomia himalayana Griff., Calcutta J. Nat. Hist. 5: 97. 1854.

Distribution: Sikkim; 1200–2100 m.

Roystonea O.F.Cook

Roystonea regia (Kunth) O.F.Cook, Science II, 12: 479. 1900. *Oreodoxa regia*

Kunth

Distribution: Uttarakhand.

Salacca Reinw.

Salacca secunda Griff., Calcutta J. Nat. Hist. 5: 12. 1845.

Distribution: Arunachal Pradesh.

Trachycarpus H.Wendl.

Trachycarpus fortunei (Hook.) H.Wendl., Bull. Soc. Bot. France 8: 429. 1861.

Chamaerops fortunei Hook

Distribution: Uttarakhand.

Trachycarpus martianus (Wall. ex Mart.) H.Wendl., Bull. Soc. Bot. France 8:

429. 1861. *Chamaerops martiana* Wall. ex Mart.

Distribution: Arunachal Pradesh.

Trachycarpus takil Becc., Webbia 1: 52. 1905.

Distribution: Sikkim, Uttarakhand; upto 1650 m.

(Plate 301b)

Wallichia Roxb.

Wallichia caryotoides Roxb., Pl. Corom. 3: t. 295. 1820.

Distribution: Arunachal Pradesh; upto 1000 m.

Wallichia densiflora Mart., Hist. Nat. Palm. 3: 190. 1845.

Distribution: Uttarakhand.

Wallichia disticha T.Anderson, J. Linn. Soc. Bot. 11: 6. 1869.

Distribution: Arunachal Pradesh, Sikkim.

Wallichia nana Griff., Calcutta J. Nat. Hist. 5: 488. 1845.

Distribution: Arunachal Pradesh; 900–1700 m.

Wallichia oblongifolia Griff., Calcutta J. Nat. Hist. 5: 486. 1845.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1700 m.

Wallichia triandra (J. Joseph) Basu, Principes 20: 120. 1976. *Asraoa triandra* J.

Joseph

Distribution: Arunachal Pradesh; 900–2000 m.

BROMELIACEAE

(2 genus; 2 taxon)

Ananas Mill.

Ananas comosus (L.) Merr., Interpr. Herb. Amboin. 133. 1917. *Bromelia comosa* L.
Distribution: West Bengal (Darjeeling); 300–1200 m. (Plate 350a)

Bromelia L.

Bromelia pinguin L., Sp. Pl. 285. 1753.
Distribution: Himachal Pradesh, Uttarakhand.

BURMANNIACEAE

(1 genus; 2 taxa)

Burmannia L.

Burmannia coelestis D.Don., Prodr. Fl. Nepal. 44. 1825.
Distribution: West Bengal (Darjeeling).

Burmannia disticha L., Sp. Pl. 287. 1753.
Distribution: Darjeeling; 2440–3050

BUTOMACEAE

(1 genera; 1 taxa)

Butomus umbellatus L., Sp. Pl. 372. 1753.
Distribution: Jammu & Kashmir.

CANNACEAE

(1 genus; 2 taxa)

Canna L.

Canna indica L., Sp. Pl. 1. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 700–2200 m.

Canna orchoides L.H. Bailey, Gentes Herb. 1(3): 120. 1923.
Distribution: Uttarkhand.

COMMELINACEAE

(13 genera; 54 taxa)

Amischotolype Hassk.

Amischotolype dolichandra Duist., Gard. Bull. Singapore 64(1): 51–131. 2012
Distribution: Arunachal Pradesh.

Amischotolype hookeri (Hassk.) Hara, Fl. E. Himal. 399. 1966. *Forrestia hookeri* Hassk.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–800 m.

Amischotolype glabrata (Hassk.) Hassk., Flora 46: 392. 1863. *Campelia glabrata* Hassk.

Distribution: Sikkim.

Amischotolype mollissima (Blume) Hassk., Flora 46: 392. 1863. *Campelia mollissima* Blume

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1400 m.

Belosynopsis Hassk.

Belosynopsis ciliata (Blume) R.S.Rao, Notes Roy. Bot. Gard. Edinburgh 25: 187. 1964. *Tradescantia ciliata* Blume

Distribution: Arunachal Pradesh.

Belosynopsis moluccana (Roxb.) C.E.C.Fisch., Bull. Misc. Inform. Kew 1928: 406. 1928. *Commelina moluccana* Roxb.

Distribution: Arunachal Pradesh.

Commelina L.

Commelina appendiculata C.B.Clarke, Commel & Cyrt. Bengal. 13. 1874.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–500 m.

Commelina attenuata K.D.Koenig ex Vahl, Enum. Pl. Obs. 2: 168. 1805.

Distribution: Uttarakhand.

Commelina benghalensis L. Sp. Pl. 41. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–1300 m.

Commelina caroliniana Walter, Fl. Carol. 68. 1788.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 800–1500 m.

Commelina diffusa Burm.f., Fl. Ind. 18, t. 6, f. 2. 1768.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1500 m.

Commelina erecta L., Sp. Pl. 41. 1753.

Distribution: Uttarakhand.

Commelina forsskalii Vahl, Enum. Pl. Obs. 2: 172. 1805.

Distribution: Uttarakhand.

Commelina longifolia Lam., Tabl. Encycl. 1: 129. 1791. *C. salicifolia* Roxb.

Distribution: Uttarakhand.

Commelina maculata Edgew., Trans. Linn. Soc. London 20: 89. 1846.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 900–3060 m.

Commelina paleata Hassk., Pl. Jungh. 139. 1852.

Distribution: Uttarakhand.

Commelina paludosa Blume, Enum. Pl. Jav. 1:2. 1827. var. **paludosa**.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2180 m.

Commelina paludosa Blume var. **mathewsii** (C.B.Clarke) R.Rao ex Kammathy, Bull. Bot. Surv. India 3: 168. 1962. *Commelina obliqua* var. *mathewsii* C.B.Clarke
Distribution: Himachal Pradesh.

Commelina sikkimensis C.B.Clarke, Commel. Cyrt. Bengal t. 6. 1874.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–1500 m.

Commelina suffruticosa Blume, Catalogus 35. 1823.
Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 150–910 m.

Commelina tuberosa L., Sp. Pl. 41. 1753.
Distribution: Uttarakhand.

Commelina undulata R.Br., Prodr. Fl. Nov. Holl. 270. 1810.
Distribution: Himalaya.

Cyanotis D.Don

Cyanotis axillaris (L.) Sweet, Hort. Brit. 430. 1826. *Commelina axilaris* L.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 100–800 m

Cyanotis cristata (L.) D.Don, Prodr. Fl. Nepal. 46. 1825.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1600 m.

Cyanotis fasciculata (B.Heyne ex Roth) Schult. & Schult.f., Syst. Veg. 7: 1152. 1830. *Tradescantia fasciculata* B. Heyne ex Roth
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 900–1300 m.

Cyanotis papilionacea (Burm.f.) Schult. & Schult.f., Syst. Veg. 7: 1151. 1830. *Commelina papilionacea* Burm.f.
Distribution: Arunachal Pradesh.

Cyanotis vaga (Lour.) Schult. & Schult.f., Syst. Veg. 7: 1153. 1830. *Tradescantia vaga* Lour.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 910–3100 m.

Cyanotis villosa (Spreng.) Schult. & Schult.f., Syst. Veg. 7: 1155. 1830. *Tradescantia villosa* Spreng.
Distribution: Uttarakhand.

Floscopa Lour.

Floscopa scandens Lour., Fl. Cochinch. 193. 1790.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2000 m.

Murdannia Royle

Murdannia blumei (Hassk.) Brenan, Hooker's Icon. Pl. 36: t. 3578. 1962. *Dichaespermum blumei* Hassk.
Distribution: Arunachal Pradesh.

Murdannia divergens (C.B. Clarke) G.Brückn., Nat. Pflanzenfam. ed. 2, 15a: 173. 1930. *Aneilema herbaceum* Wall. var. *divergens* C.B. Clarke

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–1200 m.

Murdannia edulis (Stokes) Faden, Taxon 29: 77. 1980. *Commelina edulis* Stokes

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 600–1800 m.

Murdannia gigantea (Vahl) Bruckn., Nat. Pflanzenfam. ed. 2, 15a: 173. 1930. *Commelina gigantea* Vahl

Distribution: Arunachal Pradesh; 800–1400 m.

Murdannia japonica (Thunb.) Faden, Taxon 26: 142, f. 1. 1977. *Commelina japonica* Thunb.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1600 m.

Murdannia loriformis (Hassk.) R.S. Rao & Kammathy, Bull. Bot. Surv. India 3: 393. 1961. *Aneilema loriforme* Hassk.

Distribution: Arunachal Pradesh; 150–1600 m.

Murdannia nudiflora (L.) Brenan, Kew Bull. 1952. *Commelina nudiflora* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1700 m.

Murdannia simplex (Vahl) Brenan, Kew Bull. 1952: 186. 1952. *Commelina simplex* Vahl

Distribution: Arunachal Pradesh; 1000–1600 m.

Murdannia spirata (L.) G.Brückn., Nat. Pflanzenfam. ed. 2, 15a: 173. 1930. *Commelina spirata* L.

Distribution: Arunachal Pradesh, Uttarakhand; 100–1000 m.

Murdannia triquetra (Wall. ex C.B. Clarke) G.Brückn., Nat. Pflanzenfam. ed. 2, 15a: 173. 1930. *Aneilema triquetrum* Wall. ex C.B. Clarke

Distribution: Arunachal Pradesh; 300–1700 m.

Murdannia vaginata (L.) G.Brückn., Nat. Pflanzenfam. ed. 2, 15a: 173. 1930. *Commelina vaginata* L.

Distribution: Himachal Pradesh, Sikkim; 515–1800 m.

Pollia Thunb.

Pollia hasskarlii R.S. Rao, Notes Roy. Bot. Gard. Edinburgh 25: 188. 1964.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1250–1500 m.

Pollia secundiflora (Blume) Bakh.f., Ann. Jard. Bot. Buitenz. 32: 166. 1922. *Commelina secundiflora* Blume

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 150–1600 m.

Pollia subumbellata C.B. Clarke, J. Linn. Soc. Bot. 11: 451. 1871.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 305–1830 m.

Pollia thyrsoflora (Blume) Steud., Nomencl. Bot. ed. 2, 2: 368. 1841. *Tradescantia thyrsoflora* Blume

Distribution: Uttarakhand.

Porandra ramosa D.Y.Hong, Acta Phytotax. Sin. 12: 462. 1974.

Distribution: Arunachal Pradesh.

Rhopalephora Hassk.

Rhopalephora scaberrima (Blume) Faden, Phytologia 37: 480. 1977. *Commelina scaberrima* Blume

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–2100 m.

Streptolirion Edgew.

Streptolirion volubile Edgew., Proc. Linn. Soc. London 1: 254. 1845. subsp. **volubile**

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Streptolirion volubile Edgew. subsp. **khasianum** (C.B.Clarke) D.Y.Hong, Acta Phytotax. Sin. 12: 463. 1974. *S. volubile* Edgew. var. *khasianum* C.B. Clarke

Distribution: Arunachal Pradesh.

Tinantia Scheidw.

Tinantia erecta (Jacq.) Fenzl, Index Seminum (WU) 1849–1850: 10. 1851. *Tradescantia erecta* Jacq.

Distribution: Uttarakhand.

Tradescantia L.

Tradescantia spathacea Sw., Prodr. Veg. Ind. Occ. 57. 1788.

Distribution: Uttarakhand.

Tradescantia zebrina hort. ex Bosse, Vollst. Handb. Bl.-BÝtrtn., ed. 2, 4: 655. 1849.

Distribution: Uttarakhand.

Tricarpelema J.K.Morton

Tricarpelema chinense D.Y.Hong, Acta Phytotax. Sin. 12: 475. 1974.

Distribution: Arunachal Pradesh; 800 m.

Tricarpelema giganteum (Hassk.) H.Hara., Bull. Univ. Mus. Univ. Tokyo 2: 160. 1971. *Dichaespermum giganteum* Hassk.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 500–2300 m.

Tricarpelema glanduliferum (J.Joseph & R.S.Rao) R.S.Rao, J. Indian Bot. Soc. 59. (Suppl.): ii. 1980. *Aneilema glanduliferum* J. Joseph & R.S. Rao

Distribution: Arunachal Pradesh.

COSTACEAE
(1 genus; 2 taxa)

Hellenia Retz.

Hellenia lacerus (Gagnep.) Govaerts, *Phytotaxa* 151: 64. 2013. *Costus lacerus* Gagnep.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 305–1400 m.

Hellenia speciosus (J.Koenig) S.R.Dutta, *Pleione* 7: 228. 2013. *Banksea speciosa* J. Koenig

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500.

CYPERACEAE
(29 genera; 380 taxa)

Actinoscirpus (Ohwi) R.W. Haines & Lye

Actinoscirpus grossus (L.f.) Goetgh. & D.A.Simpson, *Kew Bull.* 46: 171. 1991 var. **grossus**. *Scirpus grossus* L.f.

Distribution: Sikkim, Uttarakhand; upto 600 m.

Actinoscirpus grossus (L.f.) Goetgh. & D.A.Simpson var. **kysoor** (Roxb.) Noltie *Edinburgh J. Bot.* 51: 173 1994. *Scirpus kysoor* Roxb.

Distribution: West Bengal (Darjeeling).

Anosporum Nees

Anosporum cephalotes (Vahl) Kurz, *J. Asiat. Soc. Bengal* 65: 159. 1875. *Cyperus cephalotes* Vahl

Distribution: Arunachal Pradesh.

Blysmus Panz. ex Roem. & Schult.

Blysmus compressus (L.) Panz. ex Link var. **brevifolia** (Decne.) Karth., *Fl. Ind. Enumerat. Monocot.* 32. 1989. *B. brevifolius* Decne

Distribution: Sikkim, Uttarakhand; 2700–4500 m.

Blysmus compressus (L.) Panz. ex Link, *Hort. Berol.* 1: 278. 1827 var. **compressus**. *Schoenus compressus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2300–4570 m.

Blysmus compressus (L.) Panz. ex Link var. **dissitus** (Duthie) Karth., *Fl. Ind. Enumerat. Monocot.* 32. 1989. *Scirpus dissitus* Duthie

Distribution: Uttarakhand.

Blysmus rufus (Huds.) Link, *Hort. Berol.* 1: 278. 1827. *Schoenus rufus* Huds

Distribution: Himachal Pradesh, Jammu & Kashmir.

Bolboschoenus Palla

Bolboschoenus maritimus (L.) Palla subsp. **affinis** (Roth) T. Koyama, Brittonia 31: 284. 1979. *Scirpus affinis* Roth.

Distribution: Himalaya.

Bolboschoenus maritimus (L.) Palla, Syn. Deut. Schweiz. Fl. ed. 3: 2532. 1905 subsp. **maritimus**. *Scirpus maritimus* L.

Distribution: Himalaya.

Bulbostylis DC.

Bulbostylis barbata (Rottb.) Clarke, Hook.f., Fl. Brit. India 6: 651. 1893. *Scirpus barbatus* Rottb.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 150–610 m.

Bulbostylis densa (Wall.) Hand.-Mazz., Karsten & Schenk, Vegetationsb. 20(7): 16. 1930. *Scirpus densus* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Carex L.

Carex acutiformis Ehrh., Bietr. 4: 43. 1789.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Carex alatauensis S.R. Zhang, Bot. J. Linn. Soc. 179: 19. 2015

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim.

Carex alopecuroides D. Don ex Tillich & Taylor, Phil. Mag. 62: 455. 1823.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Carex alpina Sw. ex Wahlenb., Kongl. Vetensk. Acad. Nya Handl. 160. 1803. Liljeb. Svensk. Fl. ed. 2. 26. 1798.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; ca 4500 m.

Carex alta Boott, Proc. Linn. Soc. 1: 254. 1845.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1500–2000 m.

Carex atrata Clarke, Fl. Brit. India 6: 731. 1894 var. **atrata**. *C. duthiei* C.B. Clarke

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3960–5180 m.

Carex atrata Clarke subsp. **pullata** (Boott) Kük., Pflanzenr. IV, 20(38): 400. 1909. *Carex atrata* Clarke var. *pullata* Boott

Distribution: Jammu & Kashmir, Sikkim, West Bengal (Darjeeling); 3900–5100 m.

Carex anomoea Hand.-Mazz., Symb. Sin. 7: 1267. 1936.

Distribution: Sikkim, Uttarakhand; 2100–3300 m.

Carex arcatica Meinsh., Trudy Imp. S.-Peterburgsk. Bot. Sada 18: 336. 1901.

Distribution: Jammu & Kashmir.

Carex atrofusca Schkuhr, Besch. Riedgräs. 1: 106. 1801 subsp **atrofusca**.

Distribution: Himachal Pradesh, Sikkim; 3810–5100 m.

Carex atrofusca Schkuhr subsp. **minor** (Boott) T. Koyama, Fl. E. Himal. 3rd. Rep. 122. 1975. *C. ustulata* Wahlenb. var. *minor* Boott

Distribution: Sikkim, Uttarakhand; 3660–5270 m.

Carex baccans Nees, Wight, Contrib. Bot. Ind. 122. 1834.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–2000 m.

Carex bhutanensis S.R. Zhang, Bot. J. Linn. Soc. 179: 19.2015.

Distribution: Sikkim.

Carex bigelowii Torr. ex Schwein., Ann. Lyc. New York 1: 67. 1824.

Distribution: Sikkim; about 3600 m.

Carex bonatiana N.A. Ivanova, Bot. Zhurn. S.S.S.R. 24:501. 1939.

Distribution: Sikkim.

Carex borii Nelmes, Kew Bull. 1946. 18: 1946. *C. borii* Nelmes var. *lutea* Stewart

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex brandisii (C.B. Clarke ex Jana & R.C. Srivast.) O.Yano, Bot. J. Linn. Soc. 179: 20. 2015. *Kobresia brandisii* C.B. Clarke ex Jana & R.C. Srivast.

Distribution: Uttarakhand.

Carex breviculmis R.Br., Prodr. 242. 1810. *C. royleana* Nees

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1600–1900 m.

Carex breviprophylla O.Yano, Bot. J. Linn. Soc. 179: 20. 2015.

Distribution: Himachal Pradesh, Sikkim.

Carex brownii Tuck., Enum. Meth. Carec. 21. 1843.

Distribution: Jammu & Kashmir.

Carex brunnea Thunb., Syst. Veg. ed. 14: 844. 1784.

Distribution: Uttarakhand.

Carex burttii Noltie, Edinburgh J. Bot. 50: 186. 1993.

Distribution: Sikkim, 1070–2200 m.

Carex canescens L., Sp. Pl. 974. 1753. *C. curta* Gooden

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Carex capillaris L., Sp. Pl. 977. 1753.

Distribution: Jammu & Kashmir.

Carex capillacea Boott, Illustr. 1: 44, t. 110. 1858.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–1600 m.

Carex capillifolia (Decne.) S.R. Zhang, Bot. J. Linn. Soc. 179: 20. 2015.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–3800 m

Carex cardiolepis Nees, Wt. Contrib. Bot. Ind. 127. 1834.

Distribution: Himachal Pradesh, Uttarakhand; 2600–3500 m.

Carex cercostachys Franch., Bull. Soc. Philom. Paris VIII, 7: 27. 1895.

Distribution: Jammu & Kashmir, Sikkim.

Carex clavispica S.R. Zhang, Bot. J. Linn. Soc. 179: 20. 2015.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Carex composita Boott, Illustr. 1: 3, t. 8. 1858.

Distribution: Arunachal Pradesh; 1000–2000 m.

Carex condensata Nees, Contr. Bot. India 123 1834.

Distribution: Sikkim, West Bengal (Darjeeling); 210–3550 m.

Carex continua C.B. Clarke, Fl. Brit. India 6: 717. 1894.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 150–610 m.

Carex courtallensis Nees ex Boott, Ill. Carex 1: 52. 1858. D

istribution: Arunachal Pradesh; 2000–2500 m.

Carex cruciata Wahlenb., Kongl. Vetensk. Acad. Handl. Stockh. 24: 149. 1803.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1700 m.

Carex cruenta Nees, Contrib. Bot. Ind. 128. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4300 m.

Carex curticeps C.B. Clarke, Fl. Brit. India 6: 729. 1894.

Distribution: Arunachal Pradesh, Sikkim.

Carex daltonii Boott, Ill. Carex 1: 5. 1858.

Distribution: Arunachal Pradesh, Sikkim; 2440–3350 m.

Carex deasyi (C.B. Clarke) O. Yanao & S.R. Zhang, Bot. J. Linn. Soc. 179: 20.

2015. *Kobresia deasyi* C.B. Clarke

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand

Carex decora Boott., Ill. Carex 1: 5. 1858.

Distribution: Sikkim, West Bengal (Darjeeling); 2400–3660 m.

Carex desponsa Boott, Ill. Carex 2: 82. 1860.

Distribution: Uttarakhand.

Carex diandra Schrank, Cent. Bot. Anmerk. 57. 1781.

Distribution: Jammu & Kashmir.

Carex diluta M. Bieb. Fl. Taur. Cauc. 2: 388. 1808.

Distribution: Jammu & Kashmir.

Carex dimorpholepis Steud. Synop. Cyper. 1: 214. 1855.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Carex divulsa Stokes, Bot. Arr. Brit. Pl. ed. 2 2: 1035.1787.

Distribution: Jammu & Kashmir.

Carex doniana Spreng., Syst. Veg. 3: 825. 1826.

Distribution: Uttarakhand.

Carex eleusinoides Turcz. ex Kunth, Enum. Pl. 2: 407. 1837.

Distribution: Arunachal Pradesh, Sikkim; 1700–4200 m.

Carex eminens Nees, Contr. Bot. India 122. 1834.

Distribution: Uttarakhand.

Carex esenbeckii Kunth, Enum. Pl. 2: 522. 1837.

Distribution: Himachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3300–5000 m.

Carex fedia Nees, Contr. Bot. India 129. 1834.

Distribution: Uttarakhand.

Carex filicina Nees, Wt. Contrb. Bot. Ind. 123. 1834.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 610–3660 m.

Carex filipica S.R. Zhang, Bot. J. Linn. Soc. 79: 21. 2015.

Distribution: Himachal Pradesh, Uttarakhand.

Carex finitima Boott, Ill. 1: 44. t. 112. 1858.

Distribution: Sikkim; 300–3600 m.

Carex fissiglumis (C.B.Clarke) S.R. Zhang & O.Yano, Bot. J. Linn. Soc. 79: 21. 2015. *Koresia fissiglumis* C.B.Clarke

Distribution: Sikkim, Uttarakhand.

Carex foliosa D.Don, Trans. Linn. Soc. 14: 327. 1825.

Distribution: Himachal Pradesh, Sikkim; 2150–2900 m.

Carex fragilis Boott, Illustr. Ill. Carex 1: 7. 1858.

Distribution: Sikkim; 2700–3300 m.

Carex fucata Bott ex C.B.Clarke, Fl. Brit. India 6: 710. 1894.

Distribution: Sikkim; 2740–3960 m.

Carex fusiformis Nees, Contr. Bot. India 128. 1834.

Distribution: Sikkim, Uttarakhand; 2250–3500 m.

Carex gammieie (C.B.Clarke) S.R. Zhang & O.Yano, Bot. J. Linn. Soc. 79: 21. 2015. *Koresia gammieie* C.B.Clarke

Distribution: Sikkim.

Carex gracilentia Boott ex Boeckeler, Linnaea 41: 185. 1877.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3200–4320 m.

Carex haematostoma Nees, Contr. Bot. India 125. 1834.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3300–4200 m.

Carex harae (Rajbh. & H. Ohba) O.Yano, Bot. J. Linn. Soc. 79: 22. 2015. *Koresia harae* Rajbh. & H. Ohba

Distribution: Sikkim.

Carex hebecarpa C.A.Mey., Petersb. Mem. Sav. Etrang. 1: 223, t. 12. 1831.

Distribution: Arunachal Pradesh; 300–2000 m.

Carex heterostachya Bunge Enum. Fl. Chin. bor. 69. 1832.

Distribution: Jammu & Kashmir.

Carex hokarsarensis E.U.Haq & Dar, Rheedeia 20(1): 29. 2010.

Distribution: Jammu & Kashmir; 1600 m.

Carex hypsobates Nelves, Bull. Misc. Inform. Kew 1940: 272. 1940.

Distribution: Jammu & Kashmir.

Carex inanis Kunth, Enum. Pl. 2: 522. 1837.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000–4200 m.

Carex inclinis C.B.Clarke, Fl. Brit. India 6: 728. 1894.

Distribution: Sikkim, West Bengal (Darjeeling); 2300–3960 m.

Carex indica L., Mant. Alt. 2: 574. 1771.

Distribution: Arunachal Pradesh, Sikkim; 1200–1800 m.

Carex infuscata Nees, Wt. Contrib. Bot. Ind. 125. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–4000 m

Carex insignis Boott, Ill. 1: 5, t. 14. 1858.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1800 m.

Carex kanii (Rajbh. & H. Ohba) S.R. Zhanng & O. Yano, Bot. J. Linn. Soc. 79: 22. 2015. *Koresia kanii* Rajbh. & H. Ohba

Distribution: Sikkim.

Carex karoi (Frey) Freyn., Oesterr. Bot. Zeitschr. 40: 303. 1890. *C. capillaris* L. subsp. *karoi* Freyn

Distribution: Jammu & Kashmir.

Carex kashmirensis C.B.Clarke, Fl. Brit. India 6: 743. 1894.

Distribution: Jammu & Kashmir.

Carex kokanica (Regel) S.R. Zhanng, Bot. J. Linn. Soc. 79: 22.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand

Carex kumaonensis Kizk, Pflanzenr. IV, 20(38): 544. 1909.

Distribution: Uttarakhand.

Carex laeta Boott, Ill. Carex 1: 69 1858.

Distribution: Sikkim; 3660–4315 m.

Carex lateralis Kük., Pflanzenz. IV, 20(38): 639. 1909.

Distribution: Jammu & Kashmir.

Carex lehmannii Drejer, Synb. Caric. 13. t. 2. 1844.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3300–4300 m.

Carex lenta D. Don, Trans. Linn. Soc. London 14: 327. 1824.

Distribution: Uttarakhand.

Carex leporina L., Sp. Pl. 973. 1753.

Distribution: Jammu & Kashmir; 2700 m.

Carex ligulata Nees, Contr. Bot. India 127. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex longicuris Nees, Wt. Contrib. Bot. Ind. 124. 1834.

Distribution: Himachal Pradesh, Uttarakhand.

Carex longicuspis Boeckeler Cyper. Nov. 1: 49. 1888.

Distribution: Jammu & Kashmir; 2000–2450 m.

Carex longipes D. Don ex Tilloch & Taylor, Philos. Mag. J. 62: 455. 1823.

Distribution: Sikkim, West Bengal (Darjeeling); 1500–3050 m.

Carex maritima Gunnerus Fl. Norv. 2: 131. 1772. *C. incurva* Lightf.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex melanantha C.A. Mey., Ledeb. Fl. Alt. 4: 216. 1833.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3300–4800 m

Carex melanostachya M. Bieb. ex Willd., Sp. Pl. 4: 299. 1805.

Distribution: Uttarakhand.

Carex moorcroftii Falc. ex Boott, Proc. Linn. Soc. London 1: 288. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 3400–5550 m.

Carex microglochis Wahlenb., Vet. Akad. Stockh. 24: 140. 1803.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3600–4100 m.

Carex montis-everesti Kük., Bull. Misc. Inform. Kew 1934: 261. 1934.

Distribution: Sikkim; 4570 m.

Carex moorcroftii Falc. ex Boott, Proc. Linn. Soc. London 1: 288. 1846

Distribution: Himachal Pradesh, Sikkim; 4270–5430 m.

Carex munda Boott., Ill. Carex 1: 7. 1858.

Distribution: Sikkim, West Bengal (Darjeeling); 2050–4270 m.

Carex munipoorensis C.B. Clarke, Hook. f., Fl. Brit. India 6: 729. 1894.

Distribution: Arunachal Pradesh.

Carex munroi Boott ex C.B. Clarke, Fl. Brit. India 6: 738. 1894.

Distribution: Himachal Pradesh.

Carex muricata Nees subsp. **ashokae** Monila Gonz., Acedo & Llamas, Syst.

Bot. 33: 248. 2008.

Distribution: Jammu & Kashmir.

Carex myosuroides Vill., Prosp. Hist. Pl. Dauphiné 17. 1779.

Distribution: Jammu & Kashmir, Uttarakhand.

Carex myosurus Nees, Wight, Contrib. Bot. Ind. 122. 1834.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–2500 m.

Carex nairii Ghildyal & U.C. Bhattach., J. Econ. Taxon. Bot. 8: 479. 1986.

Distribution: Jammu & Kashmir.

Carex nakaoana T. Koyama, Acta Phytotax. Geobot. 15: 112. 1954.

Distribution: Sikkim.

Carex nandadeviensis Ghildyal, U.C. Bhattach. & Hajra, Indian J. Forest. 9: 90. 1986.

Distribution: Uttarakhand.

Carex nigerrima Nelmès, Kew Bull. 1939: 200. 1939. *C. atrata* C.B. Clarke

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex nivalis Boott, Trans. Linn. Soc. 20: 136. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–4600 m.

Carex norvegica Retz., Fl. Scand. Prodr. 179. 1779. *C. alpina* Sw. var. *erostrata*

Boott

Distribution: Uttarakhand.

Carex notha Kunth, Enum. Pl. 2: 421. 1837.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3300–3600 m.

Carex nubigena D. Don ex Tillich & Taylor, Phil. Mag. 62: 455. 1823.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2700 m.

Carex nudicarpa (Y.C. Yang) S.R. Zhang, Bot. J. Linn. Soc. 179: 23. 2015.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex obscura Nees, Wt. Contrib. Bot. Ind. 126. 1834 var. **obscura**

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4000 m.

Carex obscura Nees var. **brachycarpa** C.B. Clarke, Fl. Brit. India 6: 731. 1894.

Distribution: Sikkim, Uttarakhand; 2700–3960 m.

Carex obscuriceps Kük., Pflanzenr. IV, 20(38): 723. 1909.

Distribution: Sikkim, 2300–3660 m.

Carex oederi Retz., Fl. Scand. Prodr. 179. 1779.

Distribution: Jammu & Kashmir.

Carex oedorrhampha Nelmes, Kew Bull. 1939: 659. 1939.

Distribution: Sikkim, West Bengal (Darjeeling); 1600–1980 m.

Carex oligocarya C.B. Clarke, Fl. Brit. India 6: 746. 1894.

Distribution: Jammu & Kashmir.

Carex olivacea Boott., Proc. Linn. Soc. London 1: 286. 1846.

Distribution: Sikkim; 2000–3050 m.

Carex orbicularis Boott, Proc. Linn. Soc. 1: 254. 1845.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4600 m.

Carex ovoidispica O. Yano, Bot. J. Linn. Soc. 179: 24. 2015.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Carex pamirensis C.B. Clarke ex Fedtsh., J. Bot. St. Petersburg. 1: 19. 1906.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 2700–3600 m.

Carex pinguipes C.B. Clarke, Bull. Misc. Inform. Kew, Addit. Ser. 8: 85. 1908.

Distribution: Uttarakhand.

Carex paramjitii (Jana, Noltei, R.C. Srivast. & A. Mukh.) O. Yano, Bot. J. Linn.

Soc. 179: 24. 2015. *Kobresia paramjitii* Jana, Noltei, R.C. Srivast. & A. Mukh.

Distribution: Sikkim.

Carex phacota Spreng. Syst. 3: 826. 1826.

Distribution: Himachal Pradesh, Sikkim.

Carex parva Nees, Wt., Contrib. Bot. Ind. 120. 1834.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3660–4780 m.

Carex parvigluma C.B. Clarke, Fl. Brit. India 6: 716. 1894.

Distribution: Arunachal Pradesh; 400–600 m.

Carex parvula O. Yano, Bot. J. Linn. Soc. 179. 24. 2015.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Carex phacota Spreng., Syst. Veg. 3: 826. 1826.

Distribution: Sikkim, Uttarakhand; 1800–2100 m.

Carex plectobasis V.I. Krecz., Not. Syst. Harb. Inst. Bot. Acad. Sci. URSS 9: 192. 1946.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3400–4000 m.

Carex polycephala Boott, Illustr. 1: 4, t. 12. 1858.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 400–600 m.

Carex polyphylla Kar. & Kir., Bull. Soc. Nat. Mosc. 14: 859. 1841.

Distribution: Himachal Pradesh.

(Plate 302b)

Carex praeclara Nelmes, Hook., Ic. Pl. 35. t. 3403. 1940.

Distribution: Sikkim; 4880–5030 m.

Carex praelonga C.B. Clarke, Fl. Brit. India 6: 707. 1894.

Distribution: Sikkim; 2250–2700 m.

Carex prainii Kük., Bull. Herb. Boissier II, 55: 51. 1903.

Distribution: Sikkim.

Carex pseudobicolor Boeckeler, Beitr. Cyper. 1: 44. 1888.

Distribution: Jammu & Kashmir.

Carex pseudocyperus L., Sp. Pl. 978. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Carex pseudofoetida Kink. ex Ostenf., Bot. Tidskr. 28: 225.f. 1. 1907. subsp. **pseudofoetida**

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3050–4780 m.

Carex pseudofoetida Kiikenthal subsp. **afghanica** Kukkonen, Ann. Bot. Fenn. 21:f. 3. 1984.

Distribution: Sikkim; 3050–4780 m.

Carex pseudogammiei S.R. Zhan., Bot. J. Linn. Soc. 179: 25. 2015.

Distribution: Arunachal Pradesh.

Carex pseudolaxa (C.B. Clarke) O. Yano & S.R. Zhan., Bot. J. Linn. Soc. 179: 25. 2015. *Koresia pseudolaxa* C.B. Clarke.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Carex pseuduncinoides (Noltie) O. Yano & S.R. Zhan., Bot. J. Linn. Soc. 179: 25. 2015.

Distribution: Sikkim.

Carex psychrophila Nees, Wt. Contrib. Bot. Ind. 127. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3400–4000 m.

Carex pulchra Boott., Ill. Carex 1: 4. 1858.

Distribution: Sikkim, West Bengal (Darjeeling); 2000–3350 m.

Carex radicalis Boott., Ill. Carex 1: 56. 1858.

Distribution: Sikkim; 2900–3480 m.

Carex rara Boott, Proc. Linn. Soc. 1: 284. 1845 Ill. 1: 44, t. 109. 1858.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–1800 m.

Carex ratongensis (C.B. Clarke) C.B. Clarke, Bull. Misc. Inform. Kew, Addit. Ser. 8: 75. 1908. *Carex myosurus* var. *ratongensis* C.B. Clarke

Distribution: Sikkim.

Carex rcsrivastavae (Jana) Roalson, Bot. J. Linn. Soc. 179: 25. 2015. *Kobresia resrivastavae* Jana

Distribution: Uttarakhand.

Carex remota L., Sp. Pl. 1383. 1753 subsp. **remota**

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Carex remota L. subsp. **rochebrunii** (Franch. & Sav.) Kink, Pflanzenr. IV, 20(38): 234. 1909. *C. rochebrunii* Franch. & Sav.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2400–3750 m.

Carex remota L. subsp. **stewartii** Kink, Ann. Bot. Fenn. 21: 385, f. 4b. 1984.

Distribution: Sikkim; 2700–3150 m.

Carex rostrata Stokes, Bot. Arr. Brit. Pl. ed. 2 2: 1059. 1787.

Distribution: Uttarakhand.

Carex rubrobrunnea C.B. Clarke, Hook. f., Fl. Brit. India 6: 710. 1894.

Distribution: Arunachal Pradesh; 1200–2000 m.

Carex rufulistolon T. Koyama, Acta Phytotax. Geobot. 15: 111. 1954.

Distribution: Jammu & Kashmir.

Carex sahnii Ghildyal & U.C. Bhattach. J. Econ. Taxon. Bot. 7: 447. 1985 (1986).

Distribution: Sikkim.

Carex sanguinea Boott Proc. Linn. Soc. London 1: 285. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex sanjappae M. Bhaumik & M.K. Pathak, Taiwania 56(4): 309–311, fig. 1. 2011.

Distribution: Arunachal Pradesh; 1300 m.

Carex scitula Boott, Ill. 4: 177. t. 600. 1867.

Distribution: Arunachal Pradesh; 800–1200 m.

Carex setigera D. Don, Trans. Linn. Soc. 14: 330. 1824. var. **setigera**

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2600–3800.

Carex setigera D. Don var. **schlagintweitiana** (Boeck.) Kuken. Monogr. 419. 1909. *C. schlagintweitiana* Boeck.

Distribution: Himachal Pradesh.

Carex setosa Boott, Ill. Carex 3: 108. t. 327–329. 1862.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3300–4200 m.

Carex siamensis (Ohwi) S.R. Zhang, Bot. J. Linn. Soc. 179: 25. 2015.

Distribution: Uttarakhand.

Carex simpliciuscula Wahlenb., Kongl. Vetensk. Acad. Nya Handl. 1803: 141. 1803.

Distribution: Jammu & Kashmir.

Carex squamiformis (Y.C.Yang) S.R. Zhang, Bot. J. Linn. Soc. 179: 26. 2015.
Kobresia squamiformis Y.C.Yang

Distribution: Sikkim.

Carex songorica Kar. & Kir., Bull. Soc. Imp. Naturalistes Moscou 15: 525. 1842.

Distribution: Jammu & Kashmir.

Carex speciosa Kunth subsp. **dilatata** Noltie, Edinburgh J. Bot. 50(2): 197. 1993

Distribution: West Bengal (Darjeeling); 1830–2200 m.

Carex speciosa Kunth, Enum. Pl. 2: 504. 1837 subsp. **speciosa**

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1000–1700 m.

Carex speciosa Kunth subsp. **varmae** M.Bhaumik & M.K.Pathak, Taiwania 56(4): 309–314. 2011.

Distribution: Arunachal Pradesh.

Carex stenophylla Wahlenb., Vet. Akad. Stockh. 24: 142. 1803 subsp. **stenophylla**

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3500–5000 m.

Carex stenophylla Wahlenb. subsp. **stenophylloides** (V.I. Krecz.) T.V.Egorova, Fl. Erevana 339. 1972. *C. stenophylloides* V.I. Krecz

Distribution: Jammu & Kashmir; 1700–4000 m.

Carex stracheyi Boott ex C.B.Clarke, Fl. Brit. India 6: 727. 1894.

Distribution: Uttarakhand.

Carex stramentitia Boott ex Boeck., Linnaea 40: 351. 1876.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1300 m.

Carex supina Willd. ex Wahlenb., Kongl. Vetensk. Acad. Nya Handl. 24: 158. 1803.

Distribution: Uttarakhand.

Carex teres Boott, Ill. 1: 62, t. 167. 1858.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–3000 m.

Carex thomsonii Boott, Ill. 1: 1, t. 1. 1858.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 305–1500 m.

Carex tibetikobresia S.R. Zhang, Bot. J. Linn. Soc. 179: 26. 2015.

Distribution: Jammu & Kashmir.

Carex tristis M.Bieb. Fl. Tour. Caus. 3: 615. 1819.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Carex unciniiformis Boeckeler, Beitr. Cyper. 1: 40. 1888. var. **unciniiformis**

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Carex unciniiformis var. **elachista** (C.B.Clarke) V.P. Prasad. *Carex linearis* var. *elachista* C.B.Clarke

Distribution: Sikkim.

Carex uncinioides Boott, Ill. Carex 1: 8, t. 23. 1858.

Distribution: Arunachal Pradesh, Sikkim.

Carex vaginosa (C.B.Clarke) S.R. Zhang, Bot. J. Linn. Soc. 179: 26. 2015.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim.

Carex vesicaria L., Sp. Pl. 979. 1753.

Distribution: Jammu & Kashmir.

Carex vesiculosa Boott., Ill. Carex 3: 107. 1862.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1700–2010 m.

Carex vibhae (Jana, R.C.Srivast. & Bhaumik) O. Yang, Bot. J. Linn. Soc. 179: 26.

2015. *Kobresia vibhae* Jana, R.C.Srivast. & Bhaumik

Distribution: Arunachal Pradesh.

Carex vidua Boott ex C.B.Clarke, Fl. Brit. India 6: 713. 1894.

Distribution: Sikkim.

Carex viridula Michx., Fl. Bor. Amer. 2: 170. 1803.

Distribution: Jammu & Kashmir.

Carex vulpinaris Nees, Wt. Contrib. Bot. Ind. 121. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–3600 m.

Carex wallichiana Spreng., Syst. Veg. 3: 812. 1826.

Distribution: Sikkim, Uttarakhand; 2150–2870 m.

Carex winterbottomii C.B.Clarke, Fl. Brit. India 6: 727. 1894.

Distribution: Uttarakhand.

Cladium P. Browne

Cladium mariscus (L.) Pohl, Tent. Fl. Bohem. 1: 32. 1809. *Schoenus mariscus* L.

Distribution: Jammu & Kashmir; 2000 m.

Courtoisina Soják

Courtoisina cyperoides (Roxb.) Sojak, Cas. Nár. Mus., Odd. Prír. 148: 193. 1979

(1980). *Kyllinga cyperoides* Roxb.

Distribution: Sikkim, Uttarakhand; 150–305 m.

Cyperus L.

Cyperus alopecuroides Rottb., Descr. Icon. Rar. Pl. 38 1773. *Juncellus*

alopecuroides (Rottb.) C.B.Clarke

Distribution: Uttarakhand.

Cyperus alulatus Kern, Rainwardtia 1: 463 – 466.f. 1. 1952.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Cyperus amabilis Vahl, Enum. Pl. Obs. 2: 318. 1805.

Distribution: Uttarakhand.

Cyperus atkinsonii Clarke, J. Linn. Soc. 21: 109. 1885.

Distribution: Himachal Pradesh.

Cyperus babakan Steud., Syn. 2: 6. 1854.

Distribution: Arunachal Pradesh; 800–1800 m.

Cyperus bulbosus Vahl, Enum. Pl. Obs. 2: 342. 1805.

Distribution: Uttarakhand.

Cyperus castaneus Willd., Sp. Pl. 1: 278. 1797.

Distribution: West Bengal (Darjeeling); 366 m.

Cyperus cephalotes Vahl., Enum. Pl. Obs. 2: 311. 1805.

Distribution: Arunachal Pradesh.

Cyperus compactus Retz., Observ. Bot. 5: 10. 1789.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 100–1000 m.

Cyperus compressus L., Sp. Pl. 46. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–700 m.

Cyperus corymbosus Rottb., Descr. Icon. Rar. Pl. 42. 1773.

Distribution: Uttarakhand.

Cyperus cuspidatus Kunth, Nov. Gen. Sp. 1: 204. 1815.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1700 m.

Cyperus cyperoides (L.) Kuntze., Rev. Gen. Pl. 3(2): 333. 1898. *Scirpus cyperoides* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2000 m.

Cyperus cyperinus (Retz.) Suringar, Cyperus Mal. Arch. 154. 1898. *Kyllinga cyperina* Retz.

Distribution: Uttarakhand.

Cyperus difformis L., Cent. Pl. 2: 6. 1756.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; upto 2400 m.

Cyperus diffusus Vahl, Enum. Pl. Obs. 2: 321. 1805. Subsp. **diffusus**

Distribution: Himalaya.

Cyperus diffusus subsp. **macrostachyus** (Boeckeler) T.Koyama, Gard. Bull. Singapore 30: 139. 1977.

Distribution: Sikkim.

Cyperus digitatus Roxb., Fl. Ind. 1: 209. 1820.

Distribution: Arunachal Pradesh, Uttarakhand; 300–700 m.

Cyperus distans L.f., Suppl. Pl. 103. 1782. var. **distans**

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1650 m.

Cyperus distans var. **pseudonutans** Kük., Pflanzenr. IV, 20(101): 140. 1935.

Distribution: Uttarakhand.

Cyperus dubius Rottb., Descr. Icon. Rar. Pl. 20. 1773.

Distribution: Himachal Pradesh, Sikkim; ca 1800 m.

Cyperus esculentus L., Sp. Pl. 45. 1753.

Distribution: Uttarakhand.

Cyperus exaltatus Retz., Observ. Bot. 5: 11. 1788.

Distribution: Sikkim, Uttarakhand; ca 1000 m.

Cyperus fuscus L., Sp. Pl. 46. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Cyperus glomeratus L., Cent. Pl. II 5. 1756.

Distribution: Jammu & Kashmir.

Cyperus haspan L., Sp. Pl. 45. 1753.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1700 m.

Cyperus imbricatus Retz., Observ. Bot. 5: 12. 1789.

Distribution: Arunachal Pradesh.

Cyperus involucratus Rottb., Descr. Pl. Rar. 22. 1772.

Distribution: Himalaya.

Cyperus iria L., Sp. Pl. 45. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–700 m.

Cyperus kyllingiella Larridon., Pl. Ecol. Evol. 144. 351. 2011.

Distribution: Uttarakhand.

Cyperus laxus Lam., Tabl. Encycl. 1: 146. 1791.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1700 m.

Cyperus michelianus (L.) Delile, Descr. Egypte, Hist. Nat. 3: 50. 1813. subsp.

michelianus. *Scirpus michelianus* L.

Distribution: Uttarakhand.

Cyperus michelianus (L.) Delile subsp. **pygmaeus** (Rottb.) Asch. & Graebn.,

Syn. Mitteleur. Fl. 2(2): 273. 1904. *C. pygmaeus* Rottb

Distribution: Uttarakhand.

Cyperus niveus Retz., *Observ. Bot.* 5: 12. 1788.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1300 m.

Cyperus nutans Vahl, *Enum. Pl.* 2: 363. 1806. *C. eleusinoides* Kunth

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–1620 m

Cyperus nutans Vahl var. **eleusinoides** (Kunth) Haines, *Bot. Bihar Orissa* 5:

898. 1924. *C. eleusinoides* Kunth

Distribution: Uttarakhand.

Cyperus nutans Vahl var. **subprolixus** (Kük.) Karth., *Fl. Ind. Enum. Monocot.*

46. 1989. *C. eleusinoides* Kunth var. *subprolixus* Kük.

Distribution: Uttarakhand.

Cyperus ohwii Kük, *Repert. Spec. Nov. Regni Veg.* 29: 197. 1931. *C. elatus* L.

var. *macromix* C.B. Clarke

Distribution: Uttarakhand.

Cyperus pangorei Rottb., *Descr. Icon. Rar. Pl.* 31. 1773. *C. tegetum* Roxb.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 910–1220 m.

Cyperus paniceus (Rottb.) Boeck., *Linnaea* 36: 381. 1870. *Kyllinga panacea* Rottb.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–500 m.

Cyperus paniceus var. **roxburghianus** (C.B. Clarke) Kük., *Pflanzenr.* IV, 20(101):

526. 1936. *Mariscus paniceus* var. *roxburghianus* C.B. Clarke

Distribution: Himalaya.

Cyperus pilosus Vahl, *Enum. Pl.* 2: 354. 1806.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1000–1500 m.

Cyperus procerus Rottb., *Descr. Icon. Rar. Pl.* 29. 1773.

Distribution: Uttarakhand.

Cyperus pygmaeus Rottb., *Descr. Icon. Rar. Pl.* 20. 1773.

Distribution: Himalaya.

Cyperus rotundus L., *Sp. Pl.* 45. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–1800 m.

Cyperus serotinus Rottb., *Descr. Pl. Rar. Progr.* 18. 1772.

Distribution: Himachal Pradesh, Uttarakhand.

Cyperus sikkimensis Kük., *Pflanzenr.* IV, 20(101): 467. 1936. *Mariscus hookerianus* C.B. Clarke.

Distribution: Arunachal Pradesh, Sikkim; 1940 m.

Cyperus silletensis Nees, *Contr. Bot. India* 79. 1834.

Distribution: Sikkim; 150–350 m.

Cyperus squarrosus L., Cent. Pl. 2: 6. 1756.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2600–3300 m.

Cyperus tenuiculmis Boeck., Linnaea 36: 286. 1870.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 150–244 m.

Cyperus tenuispica Stued., Syn. Cyp. 11. 1855.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 100–1300 m.

Cyperus thomsonii Boeck., Linnaea 36: 295. 1870.

Distribution: Arunachal Pradesh.

Diplacrum R.Br.

Diplacrum caricinum R.Br., Prodr. Fl. Nov. Holl. 241. 1810.

Distribution: Uttarakhand.

Eleocharis R.Br.

Eleocharis acutangula (Roxb.) Schult., Mant. 2: 91. 1824. *Scirpus acutangulus* Roxb.

Distribution: Uttarakhand.

Eleocharis atropurpurea (Retz.) J.Presl & C.Presl, Reliq. Haenk. 1: 196. 1828. *Scirpus atropurpureus* Retz.

Distribution: Himachal Pradesh, Uttarakhand,

Eleocharis congesta D. Don, Prodr. Fl. Nepal. 41. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1310–2300 m.

Eleocharis dulcis (Burm.f.) Trin. ex Henschel, Vita Rumph. 186. 1833. *Andropogon dulcis* Burm.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; ca. 350 m.

Eleocharis mitracarpa Steud., Syn. Cyp. 77. 1855.

Distribution: Jammu & Kashmir, E. Himalaya.

Eleocharis ovata (Roth) Roem. & Schult., Syst. Veg. 2: 152. 1817. *Scirpus ovatus* Roth.

Distribution: Jammu & Kashmir.

Eleocharis palustris (L.) Roem. & Schult., Syst. Veg. 2: 151. 1817. *Scirpus palustris* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2400–3050 m.

Eleocharis parishii Britton, J. New York Microscop. Soc. 5: 111. 1889.

Distribution: Jammu & Kashmir.

Eleocharis pellucida J.Presl & C.Presl, Reliq. Haenk. 1: 196. 1828.

Distribution: Arunachal Pradesh.

Eleocharis quinqueflora (Hartm.) O.Schwarz, Mitt. Thüring. Bot. Ges. 1: 89. 1949. *Scirpus quinqueflorus* Hartm.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Eleocharis retroflexa (Poir.) Urb., Symb. Ant. 2: 165. 1900. *Scirpus retroflexa* Poir.

Distribution: Himachal Pradesh.

Eleocharis tetraquetra Nees, Contrib. Bot. Ind. 112. 1834.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1200–1400 m.

Eleocharis tuberculosa (Michx.) Roem. & Schult., yst. Veg. 2: 152. 1817. *Scirpus tuberculosus* Michx.

Distribution: Jammu & Kashmir.

Eleocharis uniglumis (Link.) Schult., Mant. 2: 88. 1824. *Scirpus uniglumis* Link

Distribution: Himachal Pradesh.

Eleocharis wichurae Boeckeler, Linnaea 36: 448. 1870.

Distribution: Sikkim.

Eriophorum L.

Eriophorum comosum (Wall.) Wall. ex Nees, Wight, Contrib. Bot. Ind. 110. 1834.

Scirpus comosus Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 300–1900 m.

Eriophorum microstachyum Boeckeler, Linnaea 38: 399. 1874.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2400–4800 m.

Eriophorum scheuchzeri Hoppe, Bot. Taschenb. Anfänger Wiss.

Apothekerkunst 11: 104. 1801.

Distribution: Jammu & Kashmir.

Fimbristylis Vahl

Fimbristylis acicularis R.Br., Prodr. Fl. Nov. Holl. 226. 1810. *F. acicularis*

R.Br. f. *acuminata* C.B. Clarke

Distribution: Uttarakhand.

Fimbristylis acuminata Vahl, Enum. Pl. Obs. 2: 285. 1805.

Distribution: Uttarakhand.

Fimbristylis aestivalis Vahl, Enum. Pl. 2: 288. 1806.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1700 m.

Fimbristylis albovidis C.B. Clarke, Fl. Brit. India 6: 638. 1893.

Distribution: Arunachal Pradesh.

Fimbristylis aphylla Steud., Syn. 2: 114. 1855.

Distribution: Himachal Pradesh, Uttarakhand.

Fimbristylis bisumbellata (Forssk.) Bubani, Dodec. 30. 1850. *Scirpus bisumbellatus* Forssk.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2500 m.

Fimbristylis complanata (Retz.) Link, Hort. Bot. Berol. 1: 292. 1827. *Scirpus complanatus* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 150–3210 m.

Fimbristylis dichotoma (L.) Vahl, Enum. Pl. 2: 287. 1806. subsp. **dichotoma**. *Scirpus dichotomus* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2000 m.

Fimbristylis dichotoma (L.) Vahl subsp. **podocarpa** (Nees) T.Koyama, Micronesica 87 1964. *F. podocarpa* Nees

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1200–1800 m.

Fimbristylis falcata (Vahl) Kunth, Enum. Pl. 2: 239. 1837. *Scirpus falcatus* Vahl

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1400–1800 m.

Fimbristylis ferruginea (L.) Vahl, Enum. Pl. Obs. 2: 291. 1805 subsp. **ferruginea**. *Scirpus ferrugineus* L.

Distribution: Uttarakhand.

Fimbristylis ferruginea (L.) Vahl subsp. **sieberiana** (Kunth) Lye, Nordic J. Bot. 335. 1982. *F. sieberiana* Kunth

Distribution: Uttarakhand.

Fimbristylis filifolia Boeckeler, Linnaea 37: 32. 1871.

Distribution: Sikkim.

Fimbristylis fusca (Nees) C.B. Clarke, Fl. Brit. India 6: 649. 1893. *Abildgaardia fusca* Nees

Distribution: Uttarakhand.

Fimbristylis fuscinox C.B. Clarke, Fl. Brit. India 6: 638. 1893.

Distribution: West Bengal (Darjeeling); 150–440 m.

Fimbristylis griffithii Boeckeler, Flora 43: 241. 1860.

Distribution: Arunachal Pradesh.

Fimbristylis intonsa S.T. Blake, J. Arnold Arbor. 35: 221. 1954.

Distribution: Sikkim.

Fimbristylis littoralis Gaud., Freyc. Voy. Bot. 413. 1826.

Distribution: Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 150–1400 m.

Fimbristylis merguensis C.B. Clarke, Fl. Brit. India 6: 642. 1893.

Distribution: Uttarakhand.

Fimbristylis merrillii J. Kern, Blumea 8: 135. 1955.

Distribution: Sikkim, Uttarakhand.

Fimbristylis microcarya F.V.Muell, Fragm. 1: 200. 1859.

Distribution: Uttarakhand.

Fimbristylis multicephala Govind. Proc. Indian Acad. Sci. B 80: 44. 1974.

Distribution: Uttarakhand.

Fimbristylis narayanii C.E.C.Fisch., Bull. Misc. Inform. Kew 1931: 46. 1931.

Distribution: Uttarakhand.

Fimbristylis nutans (Retz.) Vahl, Enum. Pl. Obs. 2: 285. 1805. *Scirpus nutans* Retz.

Distribution: Uttarakhand.

Fimbristylis ovata (Burm.f.) Kern, Blumea 15: 126. 1967. *Carex ovata* Burm.f.

Distribution: Arunachal Pradesh, Uttarakhand; 1270–1830 m

Fimbristylis pierotii Miq., Ann. Mus. Bot. Lugd. 2: 145. 1865.

Distribution: Himachal Pradesh, Uttarakhand.

Fimbristylis polytrichoides (Retz.) Vahl., Enum. Pl. Obs. 2: 248. 1805. *Scirpus polytrichoides* Retz.

Distribution: Jammu & Kashmir.

Fimbristylis quinquangularis (Vahl) Kunth, Enum. Pl. 2: 229 1837. *Scirpus quinquangularis* Vahl

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, Sikkim, West Bengal (Darjeeling); 100–1000 m.

Fimbristylis rigidula Nees, Contr. Bot. India 99. 1834.

Distribution: Himachal Pradesh, Uttarakhand.

Fimbristylis salbundia (Nees) Kunth, num. Pl. 2: 230. 1837. *Trichelostylis salbundia* Nees

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Fimbristylis schoenoides (Retz.) Vahl, Enum. Pl. 2: 286. 1806. *Scirpus schoenoides* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 200–1000 m.

Fimbristylis squarrosa Vahl, Enum. Pl. 2: 289. 1806.

Distribution: Himachal Pradesh, Uttarakhand.

Fimbristylis stolonifera C.B.Clarke, Fl. Brit. India 6: 637. 1893.

Distribution: Sikkim; 1680–2870 m.

Fimbristylis tenera Schult, Roem. & Schult., Syst. Veg. 2: Mant. 57. 1824.

Distribution: Arunachal Pradesh, Uttarakhand.

Fimbristylis tetragona R.Br., Prodr. Fl. Nov. Holl. 226. 1810.

Distribution: Himalaya.

Fimbristylis tomentosa Vahl, Enum. Pl. Obs. 2: 290. 1805.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Fimbristylis thomsonii Boeck., *Linnaea* 37: 37. 1871.

Distribution: Sikkim; upto 1500 m.

Fimbristylis umbellaris (Lam.) Vahl, *Enum. Pl. Obs.* 2: 291. 1805. *Scirpus umbellaris* Lam.

Distribution: Uttarakhand.

Fuirena Rottb.

Fuirena ciliaris (L.) Roxb., *Hort. Bengal.* 81. 1814. *Scirpus ciliaris* L.

Distribution: Uttarakhand.

Fuirena cuspidata (Roth) Kunth, *Enum. Pl.* 2: 187. 1837. *Scirpus cuspidatus* Roth

Distribution: Uttarakhand.

Fuirena pubescens (Poir.) Kunth, *Enum. Pl.* 2: 182. 1837. *Carex pubescens* Poir.

Distribution: Himachal Pradesh

Fuirena umbellata Rottb., *Descr. Icon. Rar. Pl.* 70. 1773.

Distribution: Arunachal Pradesh; 200–1500 m.

Hypolytrum Pers.

Hypolytrum nemorum (Vahl) Spreng., *Syst. Veg.* 1: 233. 1825. *Schoenus nemorum* Vahl

Distribution: Arunachal Pradesh.

Indocourtoisia Bennet & Raizada

Indocourtoisia cyperoides (Roxb.) Bennet & Raizada, *Ind. For.* 107. 432. 1981. *Kyllinga cyperoides* Roxb.

Distribution: Arunachal Pradesh, Sikkim; 200–1500 m.

Isolepis R.Br.

Isolepis cernua (Vahl) Roem. & Schult., *Syst. Veg.* 2: 106. 1817. *Scirpus cernuus* Vahl

Distribution: Uttarakhand.

Isolepis setacea (L.) R.Br., *Prodr. Fl. Nov. Holl.* 222. 1810. *Scirpus setaceus* L.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Himachal Pradesh, Sikkim, Uttarakhand; 1400–3660 m.

Kobresia Willd.

Kobresia curvirostris (C.B. Clarke) C.B. Clarke, *Fl. Brit. India* 6: 699. 1894.

Hemicarex curvirostris C.B. Clarke

Distribution: Sikkim; 3290–3960 m.

Kobresia duthiei C.B. Clarke, *Fl. Brit. India* 6: 697. 1894.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3920–4600 m.

Kobresia gandakiensis Rajbh. & H.Ohba, Bull. Univ. Mus. Univ. Tokyo 34: 132. 1991.

Distribution: Sikkim; 4050 m.

Kobresia kansuensis Kük., Acta Horti Gothob. 5: 38 1930.

Distribution: Sikkim; 4000 m.

Kobresia laxa Nees, Contr. Bot. India 119. 1834.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2600–4000 m.

Kobresia loliacea F.T.Wang & Tang ex P.C.Li, Acta Bot. Yunnan. 12: 13. 1990.

Distribution: Arunachal Pradesh; 3000 m.

Kobresia macrantha Boeck., Cyper. Nov. 1: 39. 1888.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Kobresia nepalensis (Nees) Kukenth., Engl. Pflanzenr. IV. 20. Heft 38: 40.

1909. *Uncinia nepalensis* Nees

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; 3400–4800 m.

Kobresia nitens C.B.Clarke, J. Linn. Soc. 20: 379. t. 30.f. 7. 1883.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–5400 m.

Kobresia pygmaea (C.B.Clarke) C.B.Clarke, Fl. Brit. India 6: 696. 1894.

Hemicarex pygmaea C.B.Clarke

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3600–5200 m.

Kobresia royleana (Nees) Boeck., Linnaea 39: 8. 1875. *Trilepis royleana* Nees

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–5000 m. (Plate 302a)

Kobresia schoenoides (C.A.Mey) Steud. Synop. Cyper. 246. 1855. *Elyna schoenoides* C.A.Mey

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3800–5000 m.

Kyllinga Rottb.

Kyllinga brevifolia Rottb., Descr. Icon. Rar. Pl. 13. 1773. var. **Kyllinga**

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–2870 m.

Kyllinga brevifolia var. **stellulata** (J.V.Suringar) Ohwi, Bot. Mag. (Tokyo) 56:

199. 1942. *Cyperus brevifolius* f. *stellulatus* J.V.Suringar

Distribution: Sikkim.

Kyllinga bulbosa P.Beauv., l. Oware 1: 11. 1805.

Distribution: Himalaya.

Kyllinga melanosperma Nees, Contr. Bot. India 91 1834. subsp. **melanosperma**

Distribution: Uttarakhand.

Kyllinga melanosperma subsp. **bifolia** (Miq.) Karthik., Fl. Ind. Enumerat. - Monocot. 60. 1989.

Distribution: Himachal Pradesh, Uttarakhand.

Kyllinga nemoralis (J.R.Forst.& G.Forst.) Dandy ex Hutch. & Dalziel, Fl. W. Trop. Afr. 2, 2: 487. 1936. *Thryocephalon nemorale* J.R. Forst.& G. Forst.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1000 m.

Kyllinga odorata Vahl, Enum. Pl. Obs. 2: 382. 1805. *K. cylindrica* Nees

Distribution: Sikkim, Uttarakhand; 300–2130 m.

Kyllinga odorata subsp. **cylindrica** (Nees) T.Koyama, Gard. Bull. Singapore 30: 161. 1977. *K. cylindrica* Nees

Distribution: Himalaya.

Kyllinga squamulata Vahl, Enum. Pl. Obs. 2: 381. 1805. *Cyperus metzii* (Hochst. ex Steud.) Mattf. & Kuenth.

Distribution: Himachal Pradesh, Uttarakhand.

Kyllinga tenuifolia Steud., Syn. Pl. Glumac. 2: 69. 1854. *K. triceps* Rottb.

Distribution: Uttarakhand.

Lipocarpa R.Br.

Lipocarpa chinensis (Osbeck) Kern, Blumea, Suppl. 4: 167. 1958. *Scirpus chinensis* Osbeck

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1600 m.

Lipocarpa gracilis (Rich. ex Pers.) Nees, Linnaea 9: 287. 1834. *Hypolytrum gracile* Rich. ex Pers.

Distribution: Uttarakhand.

Lipocarpa squarrosa (L.) Goetgheb., Wageningen Agric. Univ. Pap. 89(1): 71. 1989. *Scirpus squarrosus* L.

Distribution: Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 470 m.

Mapania Aubl.

Mapania arunachalensis G.D.Pal & Giri, G.D.Pal & G.S.Giri, J. Bombay Nat. Hist. Soc. 91(3): 438. 1994.

Distribution: Arunachal Pradesh; ca. 400 m.

Mapania palustris (Hassk. ex Steud.) Fern.-Vill., Fl. Filip., ed. 3, 4(13A): 309. 1880. *Pandanophyllum palustre* Hassk. ex Steud.

Distribution: Arunachal Pradesh.

Pycreus P.Beauv.

Pycreus diaphanus (Schrud. ex Roem. & Schult.) Hooper & Koyama, J. Jap. Bot. 51: 316. 1976. *Cyperus diaphanus* Schrud. ex Roem. & Schult.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–3000 m.

Pycreus flavescens (L.) P.Beauv. ex Rchb., Fl. Germ. Excurs. 1: 72. 1830. *Cyperus flavescens* L.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Pycreus flavidus (Retz.) T.Koyama, J. Jap. Bot. 51: 316. 1976. *Cyperus flavidus* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–2000 m.

Pycreus kanarensis V.P.Prasad & N.P.Singh, . Econ. Taxon. Bot. 21: 667. 1997 (1998).

Distribution: Jammu & Kashmir.

Pycreus polystachyos (Rottb.) P.Beauv., Fl. Oware 2: 48. 1816. *Cyperus polystachyos* Rottb.

Distribution: Sikkim, West Bengal (Darjeeling).

Pycreus pumilus (L.) Nees ex C.B. Clarke, Linnaea 9: 283. 1834. *Cyperus pumilus* L.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 150–610 m.

Pycreus membranaceus (Vahl) Govind., Proc. Indian Acad. Sci., Pl. Sci. 100: 424. 1990. *Cyperus membranaceus* Vahl

Distribution: Uttarakhand.

Pycreus sanguinolentus (Vahl) Nees, Linnaea 9: 283. 1834. *Cyperus sanguinolentus* Vahl

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1600 m.

Pycreus stramineus C.B.Clarke, Fl. Brit. India 6: 589. 1893.

Distribution: Sikkim, Uttarakhand; upto 1700 m.

Pycreus sulcinus (C.B.Clarke) C.B.Clarke, Fl. Brit. India 6: 593. 1893. *Cyperus sulcinus* C.B.Clarke

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1500 m.

Pycreus uniolooides (R.Br.) Urb, Symb. Antill. 2: 164. 1900. *Cyperus uniolooides* R. Br.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–2660 m.

Queenslandiella Domin

Queenslandiella hyalina (Vahl) Ballard, Hook. Ic. Pl. 33: t. 3208. 1933. *Cyperus hyalinus* Vahl

Distribution: Arunachal Pradesh.

Rhynchospora Vahl

Rhynchospora colorata (L.) H.Pfeiff., Repert. Spec. Nov. Regni Veg. 38: 89 1935. *Schoenus coloratus* L.

Distribution: Arunachal Pradesh, Himachal Pradesh.

Rhynchospora corymbosa (L.) Britton, Trans. N.Y. Acad. Sci. 11: 84. 1892. *Scirpus corymbosus* L.

Distribution: Arunachal Pradesh, Sikkim.

Rhynchospora rubra (Lour.) Makino, Bot. Mag. Tokyo 17: 180, t. 7.f. 1 a–b. 1903. *Shoenus ruber* Lour.

Distribution: Arunachal Pradesh; 150 m.

Rhynchospora rugosa (Vahl) Gale subsp. **brownii** (Roem. & Schult.) T.Koyama, Enum. Fl. Pl. Nepal 1: 118. 1978. *R. brownii* Roem. & Schult.

Distribution: Arunachal Pradesh, Sikkim; 2130–3050 m.

Schoenoplectiella Lye

Schoenoplectiella articulata (L.) Lye, Lidia 6: 20. 2003. *Scirpus articulatus* L.

Distribution: Uttarakhand, Sikkim.

Schoenoplectiella juncooides (Roxb.) Lye, Lidia 6: 25. 2003. *Scirpus juncooides* Roxb.

Distribution: Arunachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–2000 m.

Schoenoplectiella mucronata (L.) J.Jung & H.K.Choi, J. Pl. Biol. 53(3): 230. 2010. *Scirpus mucronatus* L. Sp. Pl. 50. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling).

Schoenoplectiella praelongata (Poir.) Lye, Lidia 6: 26. 2003. *Scirpus praelongatus* Poir.

Distribution: Uttarakhand.

Schoenoplectiella roylei (Nees) Lye Lidia 6: 26. 2003. *Isolepis roylei* Nees

Distribution: Himachal Pradesh, Uttarakhand.

Schoenoplectiella supina (L.) Lye, Lidia 6: 27. 2003. *Scirpus supinus* L.

Distribution: Sikkim, Uttarakhand; upto 900 m.

Schoenoplectus (Rchb.) Palla

Schoenoplectus lacustris (L.) Palla, Bot. Jahrb. Syst. 10: 299. 1888. *Scirpus lacustris* L. Sp. Pl. 72. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Schoenoplectus litoralis (Schrad.) Palla, Bot. Jahrb. Syst. 10: 299. 1888. *Scirpus litoralis* Schrad.

Distribution: Uttarakhand.

Schoenoplectus litoralis subsp. **subulatus** (Vahl) T. Koyama, Fl. Ceylon 5: 157. 1985. *Scirpus subulatus* Vahl

Distribution: Himachal Pradesh.

Schoenoplectus tabernaemontani (C.C.Gmel.) Palla, Bot. Jahrb. 10: 299. 1888. *Scirpus tabernaemontani* C.C.Gmel.

Distribution: Jammu & Kashmir.

Schoenoplectus triqueter (L.) Palla, Verh. Zool. Bot. Ges. Wien 38: 49. 1888.

Scirpus triqueter L.

Distribution: Jammu & Kashmir, Uttarakhand.

Scirpus L.

Scirpus dialgamensis Majeed Kak & Javeid, J. Bombay Nat. Hist. Soc. 79: 172. 1982.

Distribution: Jammu & Kashmir.

Scirpus ternatanus Reinw. ex Miq., Fl. Ind. Bat. 3: 307. 1856.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1200 m.

Scirpus wichurae Boeckeler, Linnaea 36: 729. 1870.

Distribution: Arunachal Pradesh.

Scleria P.J.Bergius

Scleria annularis Steud., Syn. Pl. Glumac. 2: 176. 1855.

Distribution: Jammu & Kashmir.

Scleria biflora Roxb., Fl. Ind. 3: 573. 1832.

Distribution: Uttarakhand.

Scleria levis Retz., Observ. Bot. 4: 13. 1786.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–700 m.

Scleria lithosperma (L.) Sw., Prodr. Veg. Ind. Occ. 18. 1788. *Scirpus lithospermus* L.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 610 m.

Scleria parvula Steud., Syn. Pl. Glumac. 2: 174. 1855.

Distribution: Darjeelig, Sikkim, Uttarakhand; 1400–2870 m.

Scleria pergracilis (Nees) Kunth, Enum. Pl. 2: 354. 1837. *Hypoporum pergracile* Nees

Distribution: Uttarakhand.

Scleria psilorrhiza C.B.Clarke, Fl. Brit. India 6: 691. 1894.

Distribution: Himachal Pradesh, Uttarakhand.

Scleria terrestris (L.) Fassett., Rhodora 26: 159. 1924. *Zizania terrestris* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1700 m.

Scleria tessellata Willd., Sp. Pl. 4: 315. 1805.

Distribution: Arunachal Pradesh, Uttarakhand.

Trichophorum Pers.

Trichophorum pumilum (Vahl) Schinz & Thell., Vierteljahrsschr. Naturf. Ges. Zürich 66: 265. 1921. *Scirpus pumilus* Vahl

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

DIOSCOREACEAE

(1 genus; 28 taxa)

Dioscorea L.**Dioscorea alata** L., Sp. Pl. 1033. 1753.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2500 m.

Dioscorea belophylla (Prain) Voight ex Haines, For. Fl. Chota Nagpur 530. 1910.
D. nummularia Lam. var. *belophylla* Prain

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dioscorea bradei R.Knuth, Repert. Spec. Nov. Regni Veg. 42: 177. 1937.

Distribution: Arunachal Pradesh.

Dioscorea bulbifera L., Sp. Pl. 1033 1753.

Distribution: Himalaya.

Dioscorea cirrhosa Lour., Fl. Cochinch. 625. 1790.

Distribution: Arunachal Pradesh.

Dioscorea cumingii Prain & Burkill, J. Proc. Asiat. Soc. Bengal 4: 449. 1908.

Distribution: Arunachal Pradesh.

Dioscorea daunea Prain & Burkill, J. & Proc. Asiat. Soc. Beng. 4:450. 1908.

Distribution: Arunachal Pradesh.

Dioscorea deltoidea Wall. ex Griseb., Mart., Fl. Brasil 3: 43. 1842.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2600–3200 m.

Dioscorea esculenta (Lour.) Burkill, Gard. Bull. Straits Settlem. 1: 396. 1917. *Oncus esculenta* Lour.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 950 m.

Dioscorea glabra Roxb., Fl. Ind. 3: 804. 1832.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1216 m.

Dioscorea hamiltonii Hook.f., Fl. Brit. India 6: 295. 1892.

Distribution: Arunachal Pradesh, Darjeeling, Sikkim.

Dioscorea hispida Dennst., Schlüssel Hortus Malab. 33. 1818.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 2000 m.

Dioscorea kamooneensis Kunth, Enum. Pl. 5: 395. 1850.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–1800 m.

Dioscorea laurifolia Wall. ex Hook.f., Fl. Brit. India 6: 293. 1892.

Distribution: Arunachal Pradesh.

- Dioscorea lepcharum** Prain & Burkill, J. As. Soc. Bengal (N.S.) 10: 36. 1914.
Distribution: Arunachal Pradesh.
- Dioscorea listeri** Prain & Burkill, J. As. Soc. Bengal (N.S.) 6: 452. 1901.
Distribution: Arunachal Pradesh.
- Dioscorea melanophyma** Prain & Burkill, J. As. Soc. Bengal (N.S.) 4: 452. 1908.
Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand.
- Dioscorea oppositifolia** L., Sp. Pl. 1033. 1753.
Distribution: Arunachal Pradesh.
- Dioscorea orbiculata** Hook.f., Fl. Brit. India 6: 292. 1892.
Distribution: Arunachal Pradesh.
- Dioscorea pentaphylla** L., Sp. Pl. 1032. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Dioscorea polystachya** Turcz., Bull. Soc. Imp. Naturalistes Moscou 7: 158. 1837.
Distribution: Uttarakhand.
- Dioscorea prazeri** Prain & Burkill, J. Asiat. Soc. Bengal 73: 2. 1904.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1700 m.
- Dioscorea pubera** Blume, Enum. Pl. Jav. 1: 21. 1827.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Dioscorea pyrifolia** Kunth, Enum. Pl. 5: 384. 1850.
Distribution: Arunachal Pradesh.
- Dioscorea scortechinii** Prain & Burkill, J. Asiat. Soc. Bengal (N.S.) 4: 455. 1908.
Distribution: Arunachal Pradesh.
- Dioscorea tomentosa** J.Koenig ex Spreng., Pl. Pugill. 92. 1815.
Distribution: Arunachal Pradesh.
- Dioscorea trinervia** Roxb. ex Prain & Burkill, J. Asiat. Soc. Bengal (N.S.) 10: 320. 1914.
Distribution: Arunachal Pradesh.
- Dioscorea wattii** Prain & Burkill, J. Asiat. Soc. Bengal (N.S.) 4: 457. 1908.
Distribution: Arunachal Pradesh.

DRACAENACEAE

(1 genera; 4 taxa)

Dracaena L.

Dracaena angustifolia (Medik.) Roxb., Hort. Bengal. 24. 1814. *Terminalis angustifolia* Medik

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–760 m.

Dracaena elliptica Thunb. & Dalm., *Dracaena* 6. 1808.

Distribution: Arunachal Pradesh.

Dracaena petiolata Hook.f., *Fl. Brit India* 6: 331. 1891.

Distribution: Arunachal Pradesh.

Dracaena spicata Roxb., *Fl. Ind.* 2: 157. 1832.

Distribution: Uttarakhand.

ERIOCAULACEAE

(1 genus; 17 taxa)

Eriocaulon L.

Eriocaulon alpestre Hook.f. & Thomson ex Koern., *Ann. Mus. Bot. Lugduno-Batavi* 3: 163. 1867.

Distribution: Uttarakhand, Sikkim; 2440–3960 m.

Eriocaulon brownianum Mart., *Pl. Asiat. Rar.* 2: 25, t. 248. 1832.

Distribution: Arunachal Pradesh; 500–2000 m.

Eriocaulon cinereum R.Br., *Prodr.* 254. 1810.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 200–1000 m.

Eriocaulon cristatum Mart., *Pl. Asiat. Rar.* 3: 28. 1832.

Distribution: Arunachal Pradesh; 800–2000 m.

Eriocaulon edwardii Fyson, *J. Indian Bot.* 2: 313. 1921.

Distribution: Uttarakhand.

Eriocaulon hamiltonianum Mart., *Pl. Asiat. Rar.* 3: 29. 1832.

Distribution: Uttarakhand.

Eriocaulon lanceolatum Miq. ex Körn., *Linnaea* 27: 656. 1856.

Distribution: Uttarakhand

Eriocaulon luzulifolium Mart., *Pl. Asiat. Rar.* 3: 28. 1832.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 200–1000 m.

Eriocaulon nepalense Presc. ex Bong, *Acta Acad. Petrop. Sc. Math. ser. 4*, 1: 610. 1831.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 900–1300 m.

Eriocaulon oryzetorum Mart., *Pl. Asiat. Rar.* 3: 28. 1832.

Distribution: Sikkim, Uttarakhand; 600–800 m.

Eriocaulon pumilio Hook.f., *Fl. Brit. India* 6: 581. 1893.

Distribution: Uttarakhand.

Eriocaulon quinquangulare L., *Sp. Pl.* 87. 1753.

Distribution: Himachal Pradesh, Uttarakhand.

Eriocaulon setaceum L., *Sp. Pl.* 1: 87. 1753.

Distribution: Himalaya.

Eriocaulon sieboldianum Stsud., Syn. Pl. Glumac. 2: 272. 1855.

Distribution: Sikkim; 1200–1750 m.

Eriocaulon sexangulare L., Sp. Pl. 87. 1753.

Distribution: Uttarakhand.

Eriocaulon sollyanum Royle, Bot. Himal. Mount. 409. t. 97.f. 1. 1839.

Distribution: Himachal Pradesh, Uttarakhand.

Eriocaulon truncatum Buch.-Ham. ex Mart., Pl. Asiat. Rar. 3: 29. 1832.

Distribution: Sikkim.

FLAGELLARIACEAE

(1 genus; 1 taxon)

Flagellaria L.

Flagellaria indica L., Sp. Pl. 333. 1753.

Distribution: Himalaya.

HAEMODORACEAE

(2 genera; 11 taxa)

Ophiopogon Ker Gawl.

Ophiopogon clarkei Hook.f., Fl. Brit. India 6: 268. 1892.

Distribution: Sikkim, West Bengal (Darjeeling); 1520–3050 m.

Ophiopogon dracaenoides (Baker) Hook.f., Fl. Brit. India 6: 268. 1892. *Flueggea dracaenoides* Baker

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1800 m.

Ophiopogon intermedius D.Don, Prodr. Fl. Nepal. 48. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–2700 m. **(Plate 306b)**

Ophiopogon minor Royle, Fl. Brit. India 6: 270. 1892.

Distribution: Uttarakhand.

Ophiopogon mollis Royle, Ill. Bot. Himal. Mts. 382. 1839.

Distribution: Uttarakhand.

Ophiopogon sar-garhwalensis R.D.Gaur & Rawat, Fl. Distr. Garhwal. 714. 1999.

Distribution: Uttarakhand.

Peliosanthes Andrews

Peliosanthes arunachalensis D.K.Roy, A.A. Mao & Aver. Turczaninowia 20(3): 15. 2017

Distribution: Arunachal Pradesh.

Peliosanthes griffithii Baker, J. Linn. Soc. Bot. 17: 506. 1879.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 240–1520 m. **(Plate 307a)**

Peliosanthes macrophylla Wall. ex Baker., J. Linn. Soc. Bot. 17: 505. 1879.
Distribution: Sikkim, West Bengal (Darjeeling); 300–1830 m.

Peliosanthes teta Andrews, Bot. Rep. 10: t. 605. 1808.
Distribution: Sikkim.

Peliosanthes teta Andrews subsp. **humilis** (Andrews) Jessop ex Gandhi, Fl. Hassan
Distr. 799. 1976. *P. humilis* Andrews
Distribution: Arunachal Pradesh; 300–1800 m.

HYDROCHARITACEAE
(6 genera; 10 taxa)

Blyxa Noronha ex Thouars

Blyxa aubertii Rich., Mem. Cl. Sci. Math. Inst. Natl. France 1811 (2): 19. 1814.
Distribution: Arunachal Pradesh, Jammu & Kashmir, Uttarakhand. 1500–1800 m.

Blyxa echinosperma (C.B.Clarke) Hook.f., Fl. Brit. India 5: 661. 1888.
Hydrotrophus echinospermus C.B.Clarke.
Distribution: Uttarakhand.

Hydrilla Rich

Hydrilla verticillata (L.f.) Royle, Ill. Bot. Himal. Mts. t. 376. 1839. *Serpicula verticillata* L.f.
Distribution: Himalaya. 1500–2000 m.

Hydrocharis L.

Hydrocharis dubia (Blume) Backer, Handb. Fl. Java 1: 64. 1925.
Distribution: Jammu & Kashmir.

Hydrocharis morsus-ranae L., Sp. Pl. 1036. 1753.
Distribution: Jammu & Kashmir.

Lagarosiphon W.H. Harvey

Lagarosiphon alternifolia (Roxb. ex Wight) Druce, Bot. Soc. Exch. Club Brit. Isles 4: 630. 1916. *Vallisneria alternifolia* Roxb. ex Wight
Distribution: Uttarakhand.

Ottelia Pers.

Ottelia alismoides (L.) Pers., Syn. Pl. 1: 400. 1805. *Stratiotes alismoides* L.
Distribution: Himalaya.

Vallisneria L.

Vallisneria minor Ito, Nippon Shokubutsumei 1: 23. verso. 1874.
Distribution: Jammu & Kashmir.

Vallisneria spiralis L., Sp. Pl. 1015. 1753. var. **spiralis**
Distribution: Himachal Pradesh, Uttarakhand.

Vallisneria spiralis L. var. **dense-serrulata** Makino Bot. Mag. Tokyo 28(325): 27. 1914.

Distribution: Himalaya.

HYPOXIDACEAE

(3 genera; 7 taxa)

Curculigo Gaertn.

Curculigo orchoides Gaertn., Fruct. Sem. Pl. 1: 63. 1788.

Distribution: Uttarkhand.

Hypoxis L.

Hypoxis aurea Lour., Fl. Cochinch. 200. 1790.

Distribution: Arunachal Pradesh, Sikkim.

Molineria Colla

Molineria capitulata (Lour.) Herb., Amaryllidaceae 84. 1837. *Leucojum capitulatum* Lour.

Distribution: Arunachal Pradesh.

(Plate 303a)

Molineria crassifolia Baker, J. Linn. Soc., Bot. 17: 121 1878.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

(Plate 356a&b)

Molineria gracilis Kurz, Ann. Mus. Bot. Lugduno-Batavi 4: 177 1869.

Distribution: Uttarakhand.

Molineria prainiana Deb, Bull. Bot. Surv. India 6: 77. 1965. var. **prainiana**

Distribution: Arunachal Pradesh.

(Plate 303b)

Molineria prainiana Deb var. **josephii** D.K.Roy, D.Verma & A.D.Talukdar, J.

Jap. Bot. 90(1): 61. 2015.

Distribution: Arunachal Pradesh; 475 m.

IRIDACEAE

(6 genera; 28 taxa)

Crocoshmia Planch.

Crocoshmia crocosmiiflora (Lemoine) N.E.Br., Trans. Roy. Soc. South Africa 20: 264. 1932. *Montbretia crocosmiiflora* Lemoine

Distribution: Sikkim, West Bengal (Darjeeling).

Dietes Salisbury ex Klatt

Dietes bicolor (Steud.) Sweet ex Klatt, Linnaea 34: 584. 1866. *Moraea bicolor* Steud.

Distribution: Uttarakhand.

Freesia Eckl. ex Klatt

Freesia refracta (Jacq.) Klatt, Linnaea 34: 673. 1866. *Gladiolus refracta* Jacq.

Distribution: Uttarakhand.

Gladiolus L.**Gladiolus gandavensis** Van Houtte, Cat. 1844: s.p. 1844.

Distribution: Uttarakhand.

Gladiolus murielae Kelway, Gard. Chron. III, 92: 107. 1932.

Distribution: Sikkim, West Bengal (Darjeeling).

Gladiolus undulatus L., Mant. Pl. 1: 27. 1767.

Distribution: West Bengal (Darjeeling); 2100 m.

Iris L.**Iris clarkei** Baker ex. Hook.f., Fl. Brit. India 6: 275. 1892.

Distribution: Sikkim, West Bengal (Darjeeling); 2280–4270 m. (Plate 356b)

Iris decora Wall., Pl. Asiat. Rar. 1: 77. 1830.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1800–4000 m.

Iris domestica (L.) Goldblatt & Mabb., Novon 15: 129. 2005. *Epidendrum domesticum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; upto 2200 m.

Iris ensata Thunb., Trans. Linn. Soc. London 2: 328. 1794 .

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3700 m.

Iris germanica L., Sp. Pl. 38. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Iris germanica var. **nepalensis** (Wall. ex Lindl.) Herb., Edwards's Bot. Reg. 26(Misc.): 34. 1840.

Distribution: Uttarakhand.

Iris goniocarpa Baker, Gard. Chron. n.s., 6: 710. 1876.

Distribution: Sikkim; 3000–4000 m.

Iris hookeriana Foster, Gard. Chron. I: 611. 1887.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Iris japonica Thunb., Trans. Linn. Soc. London 2: 327. 1794.

Distribution: Uttarakhand.

Iris kemaonensis D.Don ex Royle, III. Bot. Himal. I: 372. 1839.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 3800–4300 m.

Iris lactea Pall., Reise Russ. Reich. 3: 713. 1776.

Distribution: Jammu & Kashmir.

Iris milesii Baker ex Foster, Gard. Chron. 20: 231. 1883.

Distribution: Himachal Pradesh; Uttarakhand.

Iris proantha Diels, Svensk Bot. Tidskr. 18: 427. 1924.

Distribution: Arunachal Pradesh.

Iris reticulata M.Bieb., Fl. Taur.-Caucas. 1: 34. 1808.

Distribution: Jammu & Kashmir.

Iris ruthenica Ker Gawl., Bot. Mag. 28: t. 1123. 1808.

Distribution: Arunachal Pradesh.

Iris spuria L., Sp. Pl. 39. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Iris tectorum Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 15: 380. 1871.

Distribution: Sikkim, Uttarakhand; 2370–2750 m.

Iris variegata L., Sp. Pl. 38. 1753.

Distribution: Jammu & Kashmir.

Iris versicolor L., Sp. Pl. 39. 1753.

Distribution: Jammu & Kashmir.

Neomarica Sprague

Neomarica caerulea (Ker Gawl.) Sprague, Bull. Misc. Inform. Kew 1928: 280.

1928. *Marica caerulea* Ker Gawl.

Distribution: Uttarakhand.

Neomarica gracilis (Herb.) Sprague, Bull. Misc. Inform. Kew 1928: 280. 1928.

Marica gracilis Herb.

Distribution: Uttarakhand.

Neomarica northiana (Schneev.) Sprague, Bull. Misc. Inform. Kew 1928: 280.

1928. *Moraea northiana* Schneev.

Distribution: Uttarakhand.

JUNCACĀĀĀ

(2 genera; 62 taxa)

Juncus L.

Juncus allioides Franch., Nouv. Arch. Mus. Hist. Nat. II, 10: 99. 1887.

Distribution: Sikkim; 3050–4300 m.

Juncus amplifolius A.Camus., Notul. Syst. (Paris) 1: 281. 1910.

Distribution: Sikkim; 3270–4000 m.

Juncus articulatus L., Sp. Pl. 327. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Juncus benghalensis Kunth, Enum. Pl. 3: 360. 1841.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 3050–4570 m.

Juncus biglumoides Hara, J. Jap. Bot. 49: 201. 1974.

Distribution: Uttarakhand.

Juncus brachystigma Sam., Symb. Sin. 7: 1236. 1936.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Juncus bryophilus W.W.Sm., Edinburgh J. Bot. 51: 137. 1994.

Distribution: Sikkim; 4000–4450 m.

Juncus bufonius L., Sp. Pl. 328. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2740–4570 m.

Juncus cephalostigma Sam., Symb. Sin. 7: 1233. 1936.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 3350–4540 m.

Juncus chrysocarpus Buchenau., Bot. Jahrb. 6: 201. 1885.

Distribution: Arunachal Pradesh, Sikkim; 3040–3650 m.

Juncus clarkei Buchenau, Bot. Jahrb. Syst. 6: 210. 1885.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1830–3760 m.

Juncus compressus Jacq., En. Stirp. Vind. 60 & 235. 1762.

Distribution: Himachal Pradesh.

Juncus concinnus D.Don, Prodr. Fl. Nepal. 44. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2130–4300 m.

Juncus duthiei (C.B.Clarke) Noltie, Edinburgh J. Bot. 51(2): 134. 1994.

Microschoenus duthiei C.B.Clarke

Distribution: Uttarakhand; 5000–5500 m

Juncus effusus L., Sp. Pl. 326. 1753.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1700 m.

Juncus glaucoturgidus Noltie, Edinburgh J. Bot. 51: 132. 1994.

Distribution: Sikkim.

Juncus gracilicaulis A.Camus, Notul. Syst. (Paris) 1: 279. 1910.

Distribution: Sikkim; 2740–4300 m.

Juncus grisebachii Buchenau, Abh. Nat. Ver. Brem. 3: 295. 1873.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2500–5000 m.

Juncus harae Miyam. & H.Ohba, J. Jap. Bot. 68: 27. 1993.

Distribution: Sikkim.

Juncus himalensis Klotzsch, Bot. Reise Pr. Waldemar. 60. t. 97. 1862.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 218–4256 m.

Juncus hydrophilus Noltie, Edinburgh J. Bot. 51: 138. 1994.

Distribution: Sikkim; 2300–3510 m.

Juncus inflexus L., Sp. Pl. 326. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2000–3200 m.

- Juncus kangdingensis** K.F.Wu, Acta Phytotax. Sin. 32: 460. 1994.
Distribution: Arunachal Pradesh.
- Juncus khasiensis** Buchenau, Bot. Jahrb. Syst. 12: 407. 1890.
Distribution: Sikkim; 2290–3500 m.
- Juncus kingii** Rendle, J. Bot. 44: 45. 1906.
Distribution: Sikkim; 3750–4310 m.
- Juncus leptospermus** Buchenau, Bot. Jahrb. Syst. 6: 203. 1885.
Distribution: Arunachal Pradesh.
- Juncus leucanthus** Royale ex D.Don, Proc. Linn. Soc. London 1: 10. 1840.
Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3100–4280 m.
- Juncus leucomelas** Royle ex D.Don, Proc. Linn. Soc. London 1: 10. 1840.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3100–4280 m.
- Juncus longiflorus** (A.Camus) Noltie, Edinburgh J. Bot. 51: 134. 1994. *Juncus sikkimensis* var. *longiflorus* A.Camus
Distribution: Arunachal Pradesh.
- Juncus maritimus** Lam., Encycl. 3: 264. 1789.
Distribution: Jammu & Kashmir.
- Juncus membranaceus** Royle, Trans. Linn. Soc. Lond. 18: 317. 1840.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–4800 m.
- Juncus milashanensis** A.M.Lu & Z.Y.Zhan, Acta Phytotax. Sin. 17: 127. 1979.
Distribution: Arunachal Pradesh.
- Juncus minimus** Buchenau, Bot. Zeitung (Berlin) 25: 145. 1867.
Distribution: Sikkim; 3900–5490 m.
- Juncus nepalicus** Miyam. & H.Ohba., J. Jap. Bot. 68: 28. 1993.
Distribution: Sikkim; 3050–3660 m.
- Juncus ochraceus** Buchenau, Abh. Nat. Ver. Brem. 3: 292. 1873.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–3000 m.
- Juncus perpusillus** Sam., Symb. Sin. 7: 1237. 1936.
Distribution: Arunachal Pradesh.
- Juncus prismatocarpus** R.Br., Prodr. Fl. Nov. Holl. 1: 259. 1810. var. **prismatocarpus**
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 250–2500 m.
- Juncus prismatocarpus** R.Br. var. **sinensis** (J.Gay) Hook.f., Fl. Brit. India 6: 393. 1892. *J. sinensis* J.Gay
Distribution: Arunachal Pradesh; upto 1500 m.

Juncus prismatocarpus R.Br. subsp. **leschenaultii** (Gay ex Laharpe) Kirschner, Preslia 74: 249. 2002. *J. leschenaultii* Gay ex Laharpe
Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Juncus punctorius L.f., Suppl. Pl. 208. 1781.
Distribution: Jammu & Kashmir.

Juncus rohtangensis Goel & Aswal, Indian J. Forestry 10(4): 262. 1987.
Distribution: Himachal Pradesh, Sikkim; 3000–4570 m.

Juncus setchuensis Buchenau, Bot. Jahrb. Syst. 82(37): 17. 1905.
Distribution: Arunachal Pradesh.

Juncus sherei Miyam. & H.Ohba, J. Jap. Bot. 72: 293. 1997.
Distribution: Sikkim.

Juncus sikkimensis Hook.f., Fl. Brit. India 6: 399. 1892.
Distribution: Sikkim; 3660–4880 m.

Juncus sphacelatus Decne., Jacquem. Voy. 4. Bot. 172. t. 172. 1835.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, Sikkim; 3660–4880 m.

Juncus spumosos Noltie, Edinburgh J. Bot. 51: 139. 1994.
Distribution: Arunachal Pradesh.

Juncus stipulatus Nees & Meyen, Observ. Bot. 126. 1843.
Distribution: Uttarakhand.

Juncus thomsonii Buchenau, Bot. Zeit. 25: 148. 1867.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3900 m.

Juncus tobdeniorum Noltie, Edinburgh J. Bot. 55: 42. 1998.
Distribution: Arunachal Pradesh, Sikkim.

Juncus trichophyllus W.W.Sm., Rec. Bot. Surv. India 6: 103. 1914.
Distribution: Arunachal Pradesh, Sikkim; 3800–4150 m.

Juncus triglumis L., Sp. Pl. 328. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, West Bengal (Darjeeling); 3350–4570 m.

Juncus uniflorus W.W.Sm., Rec. Bot. Surv. India 6: 104. 1914.
Distribution: Sikkim; 3660–4140 m.

Juncus wallichianus J.Gay ex Laharpe, Essai Monogr. Jonc. 51. 1825.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1100–3100 m.

Luzula DC.

Luzula australasica Steud., Syn. Pl. Glumac. 2: 294. 1855.
Distribution: Himalaya.

Luzula campestris (L.) DC., Fl. France 3: 161. 1805. *Juncus campestris* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 1500–3100 m.

Luzula effusa Buehenau, Kriol. Verz. Allcr. Junca. 53: 88. 1880. var. **effusa**

Distribution: Arunachal Pradesh, Sikkim; upto 1300 m.

Luzula effusa Buehenau var. **chinensis** (N.E.Br.) K.F.Wu, J. E. China Norm. Univ., Nat. Sci. 1992(3): 92. 1992. *L. chinensis* N.E. Br.

Distribution: Sikkim; 3040–3344 m.

Luzula multiflora (Ehrh.) Lej., Fl. Spa 1: 169. 1811. *J. multiflorus* Ehrh.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–4570 m.

Luzula oligantha Sam., Kongl. Svenska Vetensk. Acad. Handl. III, 5(1): 227. 1927.

Distribution: Arunachal Pradesh, Sikkim; 3050–3660 m.

Luzula pallescens Sw., Summa Veg. Scand. 13. 1814.

Distribution: Jammu & Kashmir.

Luzula plumosa E. Mey., Linnaea 22: 387. 1849.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1900 m.

Luzula spicata (L.) DC., Fl. Franc. 3: 161. 1805. *Juncus spicatus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3000–5500 m.

JUNCAGINACEAE

(1 genus; 2 taxa)

Triglochin L.

Triglochin maritima L., Sp. Pl. 339. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3660–5790 m.

Triglochin palustris L., Sp. Pl. 338. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3660–4570 m.

LEMNACEAE

(6 genera; 13 taxa)

Lemna L.

Lemna aequinoctialis Welw., Apont. 578. 1859.

Distribution: Himalaya.

Lemna gibba L., Sp. Pl. 970. 1753.

Distribution: Himalaya.

Lemna minor L., Sp. Pl. 970. 1753.

Distribution: Himalaya.

Lemna perpusilla Torr., Fl. State New York 2: 245. 1843.

Distribution: Himalaya.

Lemna trisulca L., Sp. Pl. 970. 1753.

Distribution: Uttarakhand.

Lemna turionifera Landolt, Aquatic Bot. 1: 355. 1975.

Distribution: Jammu & Kashmir, Himachal Pradesh.

Spirodela Schleid.

Spirodela polyrrhiza (L.) Schleid., Linnaea 13: 392. 1839. *Lemna polyrrhiza* L.

Distribution: Himachal Pradesh, Uttarakhand.

Spirodela punctata (G.Mey.) C.H.Thomps., Rep. (Annual) Missouri Bot. Gard.

1898: 28. 1898. *Lemna punctata* G.Mey.

Distribution: Uttarakhand.

Wolffia Horkel ex Schleid.

Wolffia arrhiza (L.) Horkel ex Wimm., Fl. Schles. ed. 3: 140. 1857. *Lemna arrhiza* L.

Distribution: Arunachal Pradesh, Uttarakhand.

Wolffia brasiliensis Wedd., Ann. Sci. Nat., Bot. III, 12: 170. 1849.

Distribution: Jammu & Kashmir.

Wolffia columbiana H.Karst., Bot. Unters. 1: 103. 1865.

Distribution: Jammu & Kashmir.

Wolffia globosa (Roxb.) Hartog & Plas, Blumea 18: 367. 1970. *Lemna globosa* Roxb.

Distribution: Himachal Pradesh, Uttarakhand.

Wolffia microscopica (Griff.) Kurz, J. Linn. Soc., Bot. 9: 265. 1866. *Grantia microscopica* Griff.

Distribution: Uttarakhand.

LILIACEAE

(45 genera; 190 taxa)

Aletris L.

Aletris alpestris Diels, Bot. Jahrb. Syst. 36(82): 20. 1905.

Distribution: Eastern Himalaya.

Aletris cinerascens F.T.Wang & Tang, Fl. Reipubl. Popul. Sin. 15: 254. 1978.

Distribution: Arunachal Pradesh.

Aletris glabra Bureau & Franch., J. Bot. (Morot) 5: 156. 1891.

Distribution: Arunachal Pradesh, Sikkim; 2400–4200 m.

Aletris gracilis Rendle., J. Bot. 44: 41. 1906.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1830–3800 m.

Aletris pauciflora (Klotz.) Hand.-Mazz. Symb. Sin. 7: 1120. 1936. *Stachyopogon pauciflorus* Klotz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 2290–4900 m.

Allium L.**Allium ampeloprasum** L., Sp. Pl. 294. 1753.

Distribution: Uttarakhand.

Allium asclaonicum L., Sp. Pl. ed. 2., 429. 1762.

Distribution: Arunachal Pradesh.

Allium atropurpureum Waldst. & Kit., Descr. Icon. Pl. Hung. 1: 16. 1800.

Distribution: Uttarakhand.

Allium atrosanguineum Schrenk, Bull. Sci. Acad. Imp. Sci. St. Petersb. 10: 355. 1842.

Distribution: Jammu & Kashmir, Uttarakhand.

Allium auriculatum Kunth, Enum. 4: 418. 1343.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Allium caesioides Wendelbo, Bot. Not. 122. 29. 1969.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Allium carolinianum DC., Liliac. 2. t. 101. 1804.Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 4050 m. (**Plate 304a**)**Allium cepa** L., Sp. Pl. 300. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1750 m.

Allium chinense G.Don, Mem. Wern. Nat. Hist. Soc. 6: 83. 1827.

Distribution: Arunachal Pradesh, Uttarakhand.

Allium chitralicum F.T.Wang & Tang, Bull. Fan Mem. Inst. Biol. 7: 298. 1937.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Allium chrysanthum Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 3(2): 91. 1875.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Allium consanguineum Kunth, Enum. Pl. 4: 431. 1843.

Distribution: Jammu & Kashmir, Uttarakhand.

Allium farctum Wendelbo, Nytt Mag. Bot. 14: 101. 1967.

Distribution: Himachal Pradesh.

Allium fasciculatum Rendle, J. Bot. 44: 42. 1906.

Distribution: Sikkim; 3810–4880 m.

Allium fedtschenkoanum Regel, Trudy Imp. S. Peterburgsk. Bot. Sada 3(2): 82. 1875..

Distribution: Jammu & Kashmir, Uttarakhand.

Allium gilgiticum F.T.Wang & Tang, Bull. Fam. Mem. Inst. Biol. Bot. Peking (Peiping) 7: 294. 1937.

Distribution: Jammu & Kashmir.

Allium griffithianum Boiss., Diagn. Pl. Orient. II, 4: 117. 1859.

Distribution: Uttarakhand.

Allium hookeri Thwaites, Enum. Pl. Zeyl. 339. 1864.

Distribution: Arunachal Pradesh, Sikkim; 1900–3050 m.

Allium humile Kunth, Enum. Pl. 4: 443. 1843.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–4000 m.

Allium hypsistum Stearn, Bull. Brit. Mus. (Nat. Hist.), Bot. 2: 188. 1960.

Distribution: Sikkim.

Allium jacquemontii Kunth, Enum. Pl. 4: 399. 1843.

Distribution: Jammu & Kashmir, Uttarakhand.

Allium kokanicum Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 3(2): 104. 1875.

Distribution: Jammu & Kashmir.

Allium loratum Baker, J. Bot. 3: 290. 1874.

Distribution: Jammu & Kashmir, Uttarakhand; 2600–3000 m.

Allium macleanii Baker, Bot. Mag. 109: t. 6707. 1883.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Allium macranthum Baker, J. Bot. 12: 293. 1874.

Distribution: Sikkim, 3670–4880 m.

Allium mairei H.Lév., Repert. Spec. Nov. Regni Veg. 7: 339. 1909.

Distribution: Arunachal Pradesh.

Allium oreoprasum Schrenk, Bull. Imp. Acad. Sci. Petersb. 10: 354. 1842.

Distribution: Jammu & Kashmir.

Allium prattii C.H.Wright, Foreb & Hemsley, J. Linn. Soc. Bot. 36: 124. 1903.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2440–4570 m.

Allium przewalskianum Regel, Peterburgsk. Bot. Sada 3(2): 164. 1875.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; upto 4050 m.

Allium roylei Stearn, Herbertia 12: 75. 1947.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Allium rubellum M.Bieb., Fl. Taur. Caucas. 1: 264. 1808.

Distribution: Himachal Pradesh, Uttarakhand.

Allium sativum L., Sp. Pl. 301. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1400 m.

Allium schoenoprasum L., Sp. Pl. 301. 1753.

Distribution: Jammu & Kashmir, Uttarakhand.

Allium schrenkii Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 3(2): 172. 1875.

Distribution: Western Himalaya.

Allium semenovii Regel, Bull. Soc. Mosc. 41(1): 449. 1868.

Distribution: Himachal Pradesh.

Allium spicatum (Prain) N.Friesen, Molec. Phylogen. Evol. 17: 216. 2000.

Milula spicata Prain

Distribution: Sikkim.

Allium sikkimense Baker, Journ. Bot. 12: 292. 1874.

Distribution: Himachal Pradesh, Sikkim, 3050–5180 m.

Allium stoliczkii Regel, rudy Imp. S.-Peterburgsk. Bot. Sada 3(2): 160. 1875.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Allium stracheyi Baker, J. Bot. 12: 293. 1874.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2700–4000 m.

(Plate 304b)

Allium tenuicaule Regel, Trudy Imp. S. Peterburgsk. Bot. Sada 10: 348. 1887.

Distribution: Jammu & Kashmir.

Allium tuberosum Rottler ex Spreng. Syst. Veg. ed. 16. 2: 38. 1825.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Allium victorialis L., Sp. Pl. 295. 1753.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 2600–3400 m

Allium wallichii Kunth, Enum. Pl. 4: 443. 1843.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–6000 m. (Plate 304c)

Aloe L.

Aloe vera (L.) Burm.f., Fl. Indica 83. 1768. *A. perfoliata* var. *vera* L.

Distribution: Sikkim, Uttarakhand; 1200–1600 m.

Asparagus L.

Asparagus adscendens Roxb. Fl. Ind. 2: 153. 1832.

Distribution: Himachal Pradesh, Uttarakhand.

Asparagus capitatus Baker, J. Linn. Soc., Bot. 14: 607. 1875.

Distribution: Uttarakhand.

Asparagus curillus Buch.-Ham. ex Roxb., Fl. Ind. ed. 2: 152. 1832.

Distribution: Uttarakhand.

Asparagus filicinus Buch.-Ham. ex D.Don, Prodr. Fl. Nepal. 49. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1680–2100 m.

Asparagus griffithii Baker, Journ. Linn. Soc. Bot. 14: 604. 1875.

Distribution: Himachal Pradesh.

Asparagus neglectus Kar. & Kir., Bull. Soc. Nat. Mosc. 14: 48. 1844.

Distribution: Himachal Pradesh.

Asparagus officinalis L., Sp. Pl. 313. 1753.

Distribution: Himachal Pradesh, West Bengal (Darjeeling).

Asparagus penicillatus H.Hara, J. Jap. Bot. 49: 134. 1974.

Distribution: Himalaya.

Asparagus racemosus Willd., Sp. Pl. 2: 152. 1799.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1200 m.

Asphodelus L.

Asphodelus bakeri Breistr., Bull. Soc. Sci. Isçre VI, 1: 610. 1947. *A. comosus* Baker

Distribution: Himachal Pradesh, Uttarakhand.

Asphodelus tenuifolius Cav., Anales Ci. Nat. 3: 46. 1801.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; upto 1200 m.

Aspidistra Ker-Gawl.

Aspidistra longifolia Hook.f., Fl. Brit. India 7: 326. 1892.

Distribution: Arunachal Pradesh.

Cardiocrinum (Endl.) Lindl.

Cardiocrinum giganteum (Wall.) Makino, Bot. Mag. Tokyo 27: 125. 1913.

Lilium giganteum Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–3000 m. **(Plate 304d)**

Chlorophytum Ker Gawl.

Chlorophytum arundinaceum Baker, J. Linn. Soc. Bot. 15: 323. 1876.

Distribution: Arunachal Pradesh, Sikkim; 300–1500 m.

Chlorophytum breviscapum Dalz., Hook., Kew J. Bot. 2: 141. 1850.

Distribution: Sikkim; 900 m.

Chlorophytum nepalense (Lindl.) Baker, J. Linn. Soc. Bot. 15: 330. 1876.

Phalangium nepalense Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–2100 m.

Chlorophytum tuberosum (Roxb.) Baker, J. Linn. Soc., Bot. 15: 332. 1876.

Distribution: Himalaya.

Clintonia Raf.

Clintonia udensis Trautv. & C.A. Mey, Fl. Ochot. 92. 1856. var. **udensis**

Distribution: Sikkim.

Clintonia udensis Trautv. & C.A.Mey var. **alpina** (Kunth ex Baker) Hara, J. Jap. Bot. 38: 72. 1963. *C. alpina* Kunth ex Baker.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2100–3300 m.

Colchicum L.**Colchicum luteum** Baker, Gard. Chron. 33. 1874.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Cordyline Adans.**Cordyline fruticosa** (L.) A.Chev, Cat. Pl. Jard. Bot. Saigon 66. 1919. *Convallaria fruticosa* L.

Distribution: Sikkim, Uttarakhand; 1700 m.

Dipcadi Medik.**Dipcadi montanum** (Dalzell) Baker, J. Linn. Soc., Bot. 11: 398. 1870. *Uropetalon montanum* Dalzell

Distribution: Himachal Pradesh; 1100–2000 m.

Dipcadi reidii Deb & Dasgupta, J. Bombay Nat. Hist. Soc. 75: 69. 1978.

Distribution: Uttarakhand.

Dipcadi serotinum (L.) Medik., Hist. & Commentat. Acad. Elect. Sci. Theod. Palat. 6: 431. 1790. *Hyacinthus serotinus* L.

Distribution: Himachal Pradesh, Uttarakhand.

Disporum Salisb.**Disporum cantoniense** (Lour.) Merr., Philipp. J. Sci. 15: 229. 1919. *Fritillaria cantoniensis* Lour.

Distribution: Arunachal Pradesh, Sikkim.

Disporum leucanthum H.Hara, Jap. Bot. 47: 114. 1972.

Distribution: Sikkim.

Disporum mishmiensis Hareesh & M.Sabu, Blumea 63(2): 121. 2018.

Distribution: Arunachal Pradesh.

Drimia Jacq. ex Willd.**Drimia indica** (Roxb.) Jessop, J.S. African Bot. 43: 272. 1977. *Scilla indica* Roxb.

Distribution: Himachal Pradesh, Uttarakhand.

Eremurus M.Bieb.**Eremurus himalaicus** Baker, J. Linn. Soc. Bot. 15: 283. 1876.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Eremurus persicus (Jaub. & Spach) Boiss., Diagn. Pl. Orient. 7: 119. 1846.

Distribution: Sikkim.

Eucomis L'Hçr.**Eucomis comosa** (Houtt.) Wehrh., Gartenstaud. 1: 154. 1929. *Asphodelus comosus* Houtt.

Distribution: Uttarakhand.

Fessia Speta

Fessia hohenackeri (Fisch. & Mey.) Speta, *Phyton* (Horn) 38: 101. 1998. *Scilla hohenackeri* Fisch. & Mey.

Distribution: Jammu & Kashmir; upto 1000 m.

Fritillaria L.

Fritillaria cirrhosa D.Don., *Prodr. Fl. Nepal.* 51.1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–4500 m.

Fritillaria delavayi Franch., *J. Bot. (Morot)* 12: 222. 1898.

Distribution: Sikkim; 4570–4880 m.

Fritillaria imperialis L., *Sp. Pl.* 303. 1753.

Distribution: Jammu & Kashmir.

Fritillaria raddeana Regel, *Trudy Imp. S.-Peterburgsk. Bot. Sada* 10: 365. 1887.

Distribution: Jammu & Kashmir.

Furcraea Vent.

Furcraea foetida (L.) Haw., *Syn. Pl. Succ.* 78. 1812. *Agav foetida* L.

Distribution: Sikkim, Uttarakhand; 550 m.

Furcraea selloa K.Koch., *Wochenschr. Vereines Beförd. Gartenbaues Königl. Preuss. Staaten* 3: 22. 1860.

Distribution: Sikkim, West Bengal (Darjeeling); 500 m.

Gagea Salisb.

Gagea bulbifera (Pall.) Salisb., *Ann. Bot. (König & Sims)* 2: 557. 1806. *Ornithogalum bulbiferum* Pall.

Distribution: Himachal Pradesh.

Gagea flavonutans (H.Hara) Zarrei & Wilkin, *Phytotaxa* 15: 53. 2011. *Llyodia lavonutans* H.Hara

Distribution: Arunachal Pradesh, Sikkim; 4000–4500 m.

Gagea gageoides (Zucc.) Vved. *Fl. Turkm.* 1. 2: 261. 1932. *Bulbillaria gageoides* Zucc.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Gagea kunawurensis (Royle) Greuter, *Israel J. Bot.* 19: 155. 1970. *Llyodia kunawurensis* Royle

Distribution: Himachal Pradesh, Jammu & Kashmir.

Gagea liotardii (Sternb.) Schult. & Schult.f., *yst. Veg.* 7: 545. 1829. *Ornithogalum liotardii* Sternb.

Distribution: Jammu & Kashmir.

Gagea lutea (L.) Ker.-Gawl., *Curtis Bot. Mag.* 30: t. 1200. 1809. *Ornithogalum luteum* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2740–3960 m.

Gagea noltiei Peruzzi, J.M. Tison, A. Peterson & J. Peterson, *Taxon* 57: 1212. 2008.

Distribution: Sikkim; 3658–4450 m.

Gagea reticulata (Pall.) Schult. & Schult.f., *Syst. Veg.* 7: 542. 1829. *Ornithogalum reticulatum* Pall.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3660–4270 m.

Gagea serotina (L.) Ker Gawl., *Quart. J. Roy. Inst.* 1: 180. 1816. *Bulbocodium serotonium* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3500–4490 m.

Gagea setifolia Baker, *J. Linn. Soc., Bot.* 18: 101. 1880.

Distribution: Jammu & Kashmir.

Gagea tenera Pascher, *Lotos* 52: 129. 1904.

Distribution: Jammu & Kashmir.

Gloriosa L.

Gloriosa superba L., *Sp. Pl.* 305. 1753.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 610–2200 m. (**Plate 305a**)

Hemerocallis L.

Hemerocallis fulva (L.) L., *Sp. Pl. ed. 2.* 1: 462. 1762. *Hemerocallis lilioasphodelus* L. var. *fulva* L.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 3600 m.

Hymenocallis Salisb.

Hymenocallis littoralis (Jacq.) Salisb., *Trans. Hort. Soc. London* 1: 338. 1812. *Pancreatum littorale* Jacq.

Distribution: Sikkim, Uttarakhand; 1000 m.

Iphigenia Kunth

Iphigenia indica (L.) A.Gray ex Kunth, *Enum. Pl.* 4: 213. 1843. *Melanthium indicum* L.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 1800–2200 m.

Ledebouria Roth

Ledebouria revoluta (L.f.) Jessop, *J.S. African Bot.* 36: 255. 1970. *Hyacinthus revolutus* L.f.

Distribution: Uttarakhand.

Lilium L.

Lilium bakerianum Collett & Hemsl., *J. Linn. Soc., Bot.* 28: 138. 1890.

Distribution: Sikkim.

- Lilium duchartrei** Franch., Nouv. Arch. Mus. Hist. Nat. II, 10: 96. 1887.
Distribution: Arunachal Pradesh.
- Lilium nanum** Klotzsch, Bot. Reise Pr. Waldemar 53. 1862.
Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3350–4880 m.
- Lilium nanum** Klotzsch var. **flavidum** (Rendle) Sealy, Bot. Mag. 169: t. 218. 1952.
Fritillaria flavida Rendle
Distribution: Sikkim; 3500–4500 m.
- Lilium nepalense** D.Don, Mem. Werner. Nat. Hist. Soc. 3: 412. 1821.
Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2600–3400 m. (Plate 305c)
- Lilium polyphyllum** D.Don, Bot. Himal. Mount. 388. 1839.
Distribution: Himachal Pradesh, Uttarakhand; 3000–4000 m.
- Lilium primulinum** Baker, Bot. Mag. 118: t. 7227 1892.
Distribution: Arunachal Pradesh, Sikkim.
- Lilium primulinum** var. **ochraceum** (Franch.) Stearn, Gard. Chron. III, 124: 12. 1948. *Lilium ochraceum* Franch.
Distribution: Sikkim.
- Lilium sherriffiae** Stearn, J. Roy. Hort. Soc. 75: 192. 1950.
Distribution: Sikkim.
- Lilium souliei** (Franch.) Sealy, Kew Bull. 5: 296. 1950. *Fritillaria souliei* Franch.
Distribution: Arunachal Pradesh.
- Lilium wallichianum** Schult. & Schult.f., Syst. Veg. 7: 1689. 1830.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–2400 m.
- Lilium wardii** Stapf ex f. C. Stern, J. Roy. Hort. Soc. 57: 291. 1932.
Distribution: Arunachal Pradesh.
- Liriope** Lour.
- Liriope graminifolia** (L.) Baker, J. Linn. Soc., Bot. 14: 538. 1875. *Asparagus graminifolius* L.
Distribution: Himachal Pradesh.
- Lloydia** Salisb. ex Rchb.
- Lloydia delavayi** Franch., J. Bot. 12: 193. 1898.
Distribution: Sikkim; 4000–5000 m.
- Lloydia himalensis** Royle, Ill. Bot. Himal. Mts. 388, t. 93, f. 2. 1839.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim.
- Lloydia longiscapa** Hook. Icon. Pl. 9: t. 834. 1852.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3660–4270 m.
- Lloydia tibetica** Baker ex Oliv., Hooker's Icon. Pl. 23: t. 2216 1892.
Distribution: Sikkim, Uttarakhand.

Lloydia yunnanensis Franch, J. Bot. (Morot) 12: 192. 1898.

Distribution: Sikkim; 3050–4400 m.

Maianthemum F.H. Wigg.

Maianthemum fusciculiflorum (Kawano) S.C.Chen & Kawano, Novon 10: 113. 2000. *Smilacina fusciculiflora* Kawano

Distribution: Arunachal Pradesh; 3489 m.

Maianthemum fuscum (Wall.) LaFrankie, Taxon 35(3): 588. 1986. *Smilacina fusca* Wall.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1800–2000 m.
(Plate 305b)

Maianthemum oleraceum (Baker) LaFrankie, Taxon 35(3): 589. 1986. *Tovaria oleracea* Baker

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2700–3300 m.

Maianthemum oligophyllum (Baker) Karthik., Fl. Ind. Enumerat. - Monocot. 97. 1989. *Tovaria oligophylla* Baker

Distribution: Sikkim.

Maianthemum pallidum (Royle) Karthik., Fl. Ind. Enumerat. - Monocot. 97. 1989. *Smilacina pallida* Royle

Distribution: Sikkim, Uttarakhand.

Maianthemum purpureum (Wall.) LaFrankie, Taxon 35(3): 589. 1986. *Smilacina purpurea* Wall.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2700–3700 m.

Nomocharis Franch.

Nomocharis oxypetala (D.Don) E.H.Wilson, Lilies East. Asia 13. 1925. *Fritillaria oxypetala* D.Don

Distribution: Himachal Pradesh, Uttarakhand. (Plate 306a)

Nomocharis synaptica Sealy, Kew Bull. 5: 296. 1950.

Distribution: Arunachal Pradesh.

Notholirion Wall. ex Boiss.

Notholirion bulbuliferum (Lingelsh.) Stern, Kew Bull. 6: 421. 1951. *Paradisea bulbulifera* Lingelsh.

Distribution: Sikkim; 2740–2250 m.

Notholirion macrophyllum (D.Don) Boiss., Fl. Orient. 5: 190. 1882. *Fritillaria macrophylla* D. Don

Distribution: Sikkim; 1990–3960 m.

Notholirion thomsonianum (Royle) Stapf., Kew Bull. 1934: 95. 1934. *Lilium thomsonianum* Royle

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2700–3000 m.

Paris L.

Paris mairei H.Lçv., Repert. Spec. Nov. Regni Veg. 11: 302. 1912.

Distribution: Arunachal Pradesh, Sikkim; 1900–3500 m.

Paris polyphylla Sm., Cyclop 26: Paris 2. 1813.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1800–3000 m. **(Plate 306c)**

Paris polyphylla var. **alba** H.Li & R.J.Mitchell, Bull. Bot. Res., Harbin 6(1): 123. 1986.

Distribution: Sikkim.

Paris polyphylla var. **chinensis** (Franch.) H.Hara, . Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 10: 176. 1969. *Paris chinensis* Franch.

Distribution: Arunachal Pradesh.

Paris polyphylla var. **latifolia** F.T.Wang & C.Yu Chang, Fl. Reipubl. Popul. Sin. 15: 250. 1978.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Paris polyphylla Sm. var. **nana** H.Li, Bull. Bot. Res., Harbin 6(1): 123. 1986.

Distribution: West Bengal (Darjeeling).

Paris polyphylla Sm. var. **stenophylla** Franch., Nouv. Arch. Mus. Hist. Nat. II, 10: 97. 1888.

Distribution: Sikkim; 2200–2500 m.

Paris polyphylla var. **yunnanensis** (Franch.) Hand.-Mazz., Symb. Sin. 7: 1216. 1936.

Distribution: Sikkim.

Paris thibetica Franch., ouv. Arch. Mus. Hist. Nat. II, 10: 184. 1887.

Distribution: Sikkim; 2500–4000 m.

Peliosanthes Andrews

Peliosanthes arunachalensis D.K.Roy, A.A.Mao & Aver., Turczaninowia 20(3): 15. 2017.

Distribution: Arunachal Pradesh.

Peliosanthes griffithii Baker, J. Linn. Soc. Bot. 17: 506. 1879.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 240–1520 m. **(Plate 307a)**

Peliosanthes macrophylla Wall. ex Baker., J. Linn. Soc. Bot. 17: 505. 1879.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1830 m.

Peliosanthes teta Andrews, Bot. Rep. 10: t. 605. 1808.

Distribution: Sikkim.

Peliosanthes teta Andrews subsp. **humilis** (Andrews) Jessop ex Gandhi, Fl. Hassan Distr. 799. 1976. *P. humilis* Andrews

Distribution: Arunachal Pradesh; 300–1800 m.

Polianthes L.**Polianthes tuberosa** L., Sp. Pl. 316. 1753.

Distribution: Uttarakhand.

Polygonatum Mill.**Polygonatum brevistylum** Baker, J. Linn. Soc. Bot. 14: 556. 1875.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2100 m.

Polygonatum cathcartii Baker, J. Linn. Soc. Bot. 14: 556. 1875;

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1900–3000 m.

Polygonatum cirrhifolium (Wall.) Royle, III. Bot. Himal. 380. 1839. *Convallaria cirrhifolia* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1670–4200 m.

Polygonatum curvistylum Hua, J. Bot. (Morot) 6: 424. 1892.

Distribution: Arunachal Pradesh.

Polygonatum geminiflorum Decne., Voy. Inde Or. 170. t. 179. 1844.

Distribution: Himachal Pradesh, Jammu Kashmir, Uttarakhand; 3300–4650 m.

Polygonatum graminifolium Hook., Icon. Pl. 9, t. 833. 1852.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 2400–3000 m.

Polygonatum griffithii Baker, J. Linn. Soc. Bot. 14: 558. 1875.

Distribution: Arunachal Pradesh; 1200–1500 m.

Polygonatum hookeri Baker, J. Linn. Soc. Bot. 14: 588. 1875.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–4200 m.

Polygonatum multiflorum (L.) All., Fl. Pedemont. 1: 131. 1785. *Convallaria multiflora* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2800–3700 m.

Polygonatum nervulosum Baker, J. Linn. Soc. Bot. 14: 557. 1875.

Distribution: Arunachal Pradesh, Sikkim; 1500–2700 m.

Polygonatum oppositifolium (Wall.) Royle, Bot. Himal. 1: 380. 1839. *Convallaria oppositifolia* Wall.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–3300 m.

Polygonatum oppositifolium var. **decipiens** Baker, J. Linn. Soc. 14: 559. 1875.

Distribution: Sikkim.

Polygonatum prattii Baker, Hooker's Icon. Pl. 28: t. 2217. 1892.

Distribution: Arunachal Pradesh

Polygonatum punctatum Royle ex Kunth, Enum. Pl. 5: 142. 1850.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2400 m.

(Plate 307b)

Polygonatum sibiricum F. Delaroche, Liliac. 6: t. 315. 1811.

Distribution: Sikkim, West Bengal (Darjeeling); 1830–4200 m.

Polygonatum singalilense Hara, J. Jap. Bot. 40: 102. 1965.

Distribution: Sikkim, West Bengal (Darjeeling); 2740–4270 m.

Polygonatum verticillatum (L.) All., Fl. Pedemont. 1: 131. 1785. *Convallaria verticillata* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2400–4300 m.

Polygonatum wardii F.T. Wang & Tang, Bull. Mem. Inst. Biol. 7: 284. 1937.

Distribution: Arunachal Pradesh.

Rohdea Roth

Rohdea eucomoides (Baker) N. Tanaka, Novon 13: 332. 2003. *Gonioscypha eucomoides* Baker

Distribution: Arunachal Pradesh; 1400–3000 m.

Rohdea nepalensis (Raf.) N. Tanaka, Makinoa n.s., 9: 23. 2010. *Tilcusta nepalensis* Raf.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–2400 m. **(Plate 307c)**

Rohdea wattii (C.B. Clarke) Yamashita & M.N. Tamura, J. Pl. Res. 117: 369. 2004. *Campylandra wattii* C.B. Clarke

Distribution: Arunachal Pradesh; 1800–2100 m.

Sansevieria Thunb.

Sansevieria cylindrica Bojer ex Hook., Bot. Mag. 85: t. 5093. 1859.

Distribution: Sikkim, Uttarakhand; upto 1500 m

Sansevieria trifasciata Prain, Bengal Pl. 2: 1054. 1903.

Distribution: Sikkim, upto 1800 m.

Streptopus Michx.

Streptopus chatterjeeanus S. Dasgupta, Bull. Bot. Surv. India 44: 149. 2002 (2003).

Distribution: Sikkim.

Streptopus parasimplex Hara & Ohashi, J. Jap. Bot. 48: 101. 1973.

Distribution: Sikkim; 3100–4270 m.

Streptopus simplex D. Don, Prodr. Fl. Nepal. 48. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1800–3300 m.

Theropogon Maxim.

Theropogon pallidus (Wall. ex Kunth) Maxim., Bull. Acad. Imp. Sci. St. Petersb. 15: 9. 1871. *Ophiopogon pallidus* Wall. ex Kunth

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 2500–3300 m.

Tofieldia Hudson.**Tofieldia himalaica** Baker, J. Linn. Soc., Bot. 17: 489. 1879.

Distribution: Arunachal Pradesh, Sikkim.

Tofieldia divergens Bureau & Franch., J. Bot. (Morot) 5: 157 1891.

Distribution: Arunachal Pradesh, Sikkim.

Tricyrtis Wall.**Tricyrtis maculata** (D. Don) J.F. Macbr., Contr. Gray Herb. 53: 5. 1918.*Compsa maculata* D. Don

Distribution: Arunachal Pradesh, Sikkim; 1830–2440 m.

Tulipa L.**Tulipa clusiana** DC. Liliac. 1: t. 37. 1803.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Tulipa aitchisonii A.D. Hall, J. Bot. 76: 313. 1938.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Tulipa chrysantha Boiss., Exsicc. (Pl. Pers. Bor.) 1846: 78. 1846.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Tulipa lanata Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 8: 647. 1884.

Distribution: Jammu & Kashmir.

Tupistra

Ker Gawl.

Tupistra clarkei Hook.f., Fl. Brit. India 6: 325. 1892.

Distribution: Arunachal Pradesh, Sikkim; 800–1500 m.

Tupistra nutans Wall. ex. Lindl., Edward's Bot. Reg. 15: t. 1223. 1829.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Tupistra stoliczana Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 44 (2): 199. 1875.

Distribution: Arunachal Pradesh.

Tupistra tupistroides (Kunth) Dandy, J. Bot. 70: 329. 1932. *Macrostigma tupistroides* Kunth

Distribution: Sikkim.

Ypsilandra Franch.**Ypsilandra yunnanensis** W.W. Sm. & Jeffrey, Notes Roy. Bot. Gard. Edinburgh 9: 143. 1916.

Distribution: Sikkim; 4000–4300 m.

Ypsilandra yunnanensis var. **himalaica** H. Hara, Enum. Fl. Pl. Nepal 1: 80. 1978.

Distribution: Sikkim.

Yucca L.

Yucca aloifolia L., Sp. Pl. 319. 1753.

Distribution: Sikkim; 1700 m.

Yucca gloriosa L., Sp. Pl. 319. 1753.

Distribution: Himachal Pradesh.

MARANTACEAE

(3 genera; 3 taxa)

Phrynium Willd.

Phrynium pubinerve Blume, Enum. PL Javae 1: 38. 1827.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 150–760 m. (**Plate 308a&b**)

Schumannianthus Gagnep

Schumannianthus dichotomus (Roxb.) Gagnep., Bull. Soc. Bot. France 51: 176. 1904. *Phrynium dichotomum* Roxb.

Distribution: West Bengal (Darjeeling).

Stachyphrynium K.Schum.

Stachyphrynium placentarium (Lour.) Clausager & Borchs., Kew Bull. 58: 672. 2003. *Phyllodes placentaria* Lour.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 305–1070 m.

MUSACEAE

(2 genera; 27 taxa)

Ensete Horan.

Ensete glaucum (Roxb.) Cheesman, Kew Bull. 1947: 101. 1948. *Musa glauca* Roxb.

Distribution: Arunachal Pradesh.

(**Plate 309a**)

Musa L.

Musa acuminata Colla, Mem. Gen. Musa. 66. 1820.

Distribution: Arunachal Pradesh, Uttarakhand.

Musa argentea Gogoi & Borah, Edinburgh J. Bot. 71(2): 182. 2014.

Distribution: Arunachal Pradesh; 488 m.

Musa arunachalensis A.Joe, Sreejith & M.Sabu, Phytotaxa 134(1): 50. 2013.

Distribution: Arunachal Pradesh.

Musa aurantiaca Mann ex Baker., Bot. 7: 222. 1893. var. **aurantiaca**

Distribution: Arunachal Pradesh.

Musa aurantiaca Mann ex Baker var. **homenborgohainiana** Gogoi, Nordic J. Bot. 32(6): 702. 2014.

Distribution: Arunachal Pradesh.

Musa aurantiaca Mann ex Baker var. **jengingensis** Gogoi, Nordic J. Bot. 32(6): 702. 2014.

Distribution: Arunachal Pradesh.

Musa balbisiana Colla, Mem. Gen. Musa. 56. 1820.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–914 m.

Musa cheesmanii N.W.Simmonds, Kew Bull. 11: 479 1956 (1957).

Distribution: Arunachal Pradesh.

Musa chunii Häkkinen, J. Syst. Evol. 47: 87. 2009.

Distribution: Arunachal Pradesh.

Musa flaviflora N.W.Simmonds, ew Bull. 11: 471. 1956 (1957).

Distribution: Arunachal Pradesh, Sikkim.

Musa kamengensis Gogoi & Häkkinen, Acta Phytotax. Geobot. 64(3): 149. 2013.

Distribution: Arunachal Pradesh; 1000–1200 m.

Musa markkui Gogoi & Bolrah, Gard. Bull. Singapore 65(1): 20. 2013.

Distribution: Arunachal Pradesh.

Musa mannii H.Wendl. ex Baker, details: Fl. Brit. India 6: 263. 1892.

Distribution: Arunachal Pradesh.

Musa mannii var. **namdangensis** Gogoi & Borah, Taiwania 59(2): 94. 2014.

Distribution: Arunachal Pradesh.

Musa nagalandiana S.Dey & Gogoi, Nord. J. Bot. 32. 584. 2014.

Distribution: Arunachal Pradesh.

Musa nagensium Prain, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 73: 21. 1904.

Distribution: Arunachal Pradesh.

Musa nagensium Prain var. **hongii** Häkkinen, Novon 18(3): 337. 2008.

Distribution: Arunachal Pradesh; 700 m.

Musa nana Lour., Fl. Cochinch. 644. 1790.

Distribution: Uttarakhand.

Musa ornata Roxb., Fl. Ind. 2: 488. 1824.

Distribution: Arunachal Pradesh.

Musa x paradisiaca L., Sp. Pl. 1043. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 305–914 m.

Musa puspanjaliae Gogoi & Häkkinen, Nordic J. Bot. 31(4): 473. 2013.

Distribution: Arunachal Pradesh; 1200 m.

Musa sanguinea Hook.f., Bot. Mag. 98, t. 5975. 1872.

Distribution: Arunachal Pradesh.

- Musa sikkimensis** Kurz, J. Agric. Soc. India n.s., 5: 164. 1878.
Distribution: Sikkim, West Bengal (Darjeeling); 1320–1920 m. **(Plate 309b)**
- Musa thomsonii** (King ex Baker) A.M.Cowan & Cowan, Trees N. Bengal 135. 1929. *M. x sapientum* L. fo. *thomsonii* King ex Baker
Distribution: West Bengal (Darjeeling); 457 m.
- Musa velutina** H.Wendl. & Drude, Regel, Gartenfl. 24: 65, t. 823. 1875. subsp. **velutina**
Distribution: Arunachal Pradesh, Sikkim. **(Plate 309c)**
- Musa velutina** H. Wendl. & Drude subsp. **markkuana** M.Sabu, A.Joe & Sreej, Phytotaxa 92(2): 50. 2013.
Distribution: Arunachal Pradesh; 348 m.

NAJADACEAE

(1 genus; 5 taxa)

Najas L.

- Najas graminea** Delile, Descr. Egypte, Hist. Nat. 282. 1813.
Distribution: Uttarakhand.
- Najas indica** (Willd.) Cham., Linnaea 4: 501. 1829. *Caulinia indica* Willd.
Distribution: Uttarakhand.
- Najas marina** L., Sp. Pl. 1015. 1753. var. **marina**
Distribution: Jammu & Kashmir, Uttarakhand.
- Najas marina** var. **intermedia** (Wolfg. ex Gorski) Rendle, Trans. Linn. Soc. London, Bot. 5: 395. 1899.
Distribution: Jammu & Kashmir.
- Najas minor** All., Auct. Syn. Stirp. Horti Taur. 3. 1773.
Distribution: Uttarakhand.

ORCHIDACEAE

(140 genera; 819 taxa)

Acampe Lindl.

- Acampe ochracea** (Lindl.) Hochr., Bull. New York Bot. Gard. 6: 270. 1910. *Saccolabium ochraceum* Lindl.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Acampe papillosa** (Lindl.) Lindl., Fol. Orchid. Acampe: 2. 1853. *Saccolabium papillosum* Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Acampe papillosa** (Lindl.) Lindl. var. **flava** A.P.Das, T.K.Katham & S.Nirola, Pleione 4: 155. 2010.
Distribution: West Bengal (Darjeeling).

Acampe rigida (Buch.-Ham. ex Sm.) P.F.Hunt, Kew Bull. 24: 98. 1970. *Aerides rigida* Buch.-Ham. ex Sm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Acanthophippium Blume

Acanthophippium striatum Lindl., Edwards's Bot. Reg. 24: misc. 41. 1838.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Acanthophippium sylhetense Lindl., Gen. Sp. Orchid. Pl.: 117. 1833.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Acriopsis Blume

Acriopsis liliifolia (J.Koenig) Seidenf., Opera Bot. 124: 58. 1995. *Epidendrum liliifolium* J.Koenig

Distribution: Sikkim.

Aerides Lour.

Aerides falcata Lindl. & Paxton, Paxton's Fl. Gard. 2: 142. 1851.

Distribution: Arunachal Pradesh, Sikkim.

Aerides multiflora Roxb., Pl. Coromandel 3: 68. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Aerides odorata Lour., Fl. Cochinch.: 525. 1790.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Aerides rosea Lodd. ex Lindl. & Paxton, Paxton's Fl. Gard. 2: 109. 1851.

Distribution: Arunachal Pradesh.

Agrostophyllum Blume

Agrostophyllum brevipes King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 156. 1898.

Distribution: Arunachal Pradesh, Sikkim.

Agrostophyllum callosum Rchb.f., Fl. Vit. 296. 1868.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Agrostophyllum myrianthum King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 155. 1898.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Agrostophyllum planicaule (Wall. ex Lindl.) Rchb.f., Ann. Bot. Syst. 6: 909. 1864. *Eria planicaulis* Wall. ex Lindl.

Distribution: Arunachal Pradesh, Sikkim.

Amitostigma Schltr.

Amitostigma pathakianum Av.Bhattacharjee, Phytotaxa 230 (3): 268. 2015.

Distribution: Arunachal Pradesh.

Amitostigma puberulum (King & Pantl.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 92. 1919. *Orchis puberula* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim.

Androcorys Schltr.

Androcorys angustilabris (King & Pantl.) D.K.Agrawala & H.J.Chowdhery, Kew Bull. 65: 105. 2010. *Herminium angustilabre* King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling).

Androcorys gracilis (King & Pantl.) Schltr., Notizbl. Bot. Gart. Berlin-Dahlem 7: 397. 1920. *Herminium gracile* King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling).

Androcorys jaffreyana (King & Pantl.) Lawkush & Vik.Kumar, Ind. J. Forest. 37: 483 2014. *Herminium jaffreyanum* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Androcorys josephi (Rchb.f.) D.K.Agrawala & H.J.Chowdhery, Kew Bull. 65: 106. 2010. *Herminium josephi* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Androcorys kalimpongensis (Pradhan) D.K.Agrawala & H.J.Chowdhery, Kew Bull. 65: 106. 2010. *Herminium kalimpongense* Pradhan

Distribution: West Bengal (Darjeeling).

Androcorys monophylla (D.Don) D.K.Agrawala & H.J.Chowdhery, Kew Bull. 65: 106. 2010. *Neottia monophylla* D.Don.

Distribution: Arunachal Pradesh, Sikkim, Himachal Pradesh, Uttarakhand.

Androcorys pugioniformis (Lindl. ex Hook.f.) K.Y.Lang, Guihaia 16: 105. 1996. *Herminium pugioniforme* Lindl. ex Hook.f.

Distribution: Sikkim, Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling).

Ania Lindl.

Ania penangiana (Hook.f.) Summerh., Bot. Mag. 161: t. 9553. 1939. *T. penangiana* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Anoectochilus Blume

Anoectochilus brevilabris Lindl., Gen. Sp. Orchid. Pl.: 499. 1840.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Anoectochilus roxburghii (Wall.) Lindl., Ill. Bot. Himal. Mts.: 368. 1839. *Chrysobaphus roxburghii* Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Anthogonium Wall. ex Lindl.

Anthogonium gracile Wall. ex Lindl., Intr. Nat. Syst. Bot. 2: 341. 1836.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (**Plate 310a**)

Aphyllorchis Blume

Aphyllorchis alpina King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 261. 1898.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Aphyllorchis gollanii Duthie, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 71: 42. 1902.

Distribution: Uttarakhand.

Aphyllorchis montana Rchb.f., Linnaea 41: 57. 1876.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Apostasia Blume

Apostasia nuda R. Br., Pl. Asiat. Rar. 1: 76. 1830.

Distribution: Arunachal Pradesh.

Apostasia odorata Blume, Bijdr. Fl. Ned. Ind.: 423 1825.

Distribution: Arunachal Pradesh.

Apostasia wallichii R.Br., Pl. Asiat. Rar. 1: 75. 1830.

Distribution: Sikkim, West Bengal (Darjeeling).

Appendicula Blume

Appendicula cornuta Blume, Bijdr. Fl. Ned. Ind.: 302. 1825.

Distribution: Sikkim, West Bengal (Darjeeling).

Arachnis Blume

Arachnis flos-aeris (L.) Rchb.f., Bot. Centralbl. 28: 343. 1886. *Epidendrum flos-aeris* L.

Distribution: Arunachal Pradesh.

Arachnis labrosa (Lindl. & Paxton) Rchb.f., Bot. Centralbl. 28: 343. 1886. var.

labrosa. *Arhynchium labrosum* Lindl. & Paxton

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Arachnis senapatiana (Phukan & A.A.Mao) Kocyan & Schuit., Phytotaxa 161:

62. 2014. *Armodorium senapatianum* Phukan & A.A.Mao

Distribution: West Bengal (Darjeeling).

Arundina Blume

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

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (**Plate 310b**)

Ascocentrum Schltr. ex J.J.Sm.

Ascocentrum ampullaceum (Roxb.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 1: 975 1913. *Aerides ampullacea* Roxb.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Ascocentrum semiteretifolium Seidenf., Bot. Tidsskr. 65: 358. 1970.

Distribution: Arunachal Pradesh.

Bhutanthera Renz

Bhutanthera albomarginata (King & Pantl.) Renz, Edinburgh J. Bot. 58: 101. 2001. *Habenaria albomarginata* King & Pantl.

Distribution: Sikkim.

Bhutanthera alpina (Hand.-Mazz.) Renz, Edinburgh J. Bot. 58: 102. 2001. *Habenaria alpina* Hand.-Mazz.

Distribution: Sikkim.

Biermannia King & Pantl.

Biermannia arunachalensis A.N.Rao, Rheede 16: 29. 2006.

Distribution: Arunachal Pradesh.

Biermannia bimaculata (King & Pantl.) King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 200. 1898. *Sarcochilus bimaculatus* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Biermannia jainiana S.N.Hegde & A.N.Rao, Bull. Bot. Surv. 26: 97. 1984.

Distribution: Arunachal Pradesh.

Brachycorythis Lindl.

Brachycorythis iantha (Wight) Summerh., Kew Bull. 1955: 238. 1955. *Platanthera iantha* Wight

Distribution: Arunachal Pradesh.

Brachycorythis obcordata (Lindl. ex Wall.) Summerh., Kew Bull. 10: 243. 1955. *Platanthera obcordata* Lindl. ex Wall.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand.

Bulbophyllum Thouars

Bulbophyllum affine Wall. ex Lindl., Gen. Sp. Orchid. Pl.: 48. 1830.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum amplifolium (Rolfe) N.P.Balakr. & Sud.Chowdhury, Bull. Bot. Surv. 9: 89. 1968. *Cirrhopetalum amplifolium* Rolfe

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum andersonii (Hook.f.) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 22. 1912. *Cirrhopetalum andersonii* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2000 m.

Bulbophyllum apodum Hook.f., Fl. Brit. 5: 766. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum appendiculatum (Rolfe) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 22. 1912. *Cirrhopetalum appendiculatum* Rolfe

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

- Bulbophyllum arunachalense** (A.N. Rao) J.J. Verm., Schuit. & de Vogel, Phytotaxa 166: 104. 2014. *Ione arunachalense* A.N. Rao
Distribution: Arunachal Pradesh.
- Bulbophyllum bifurcatoflorens** (Fukuy.) J.J. Verm., Schuit. & de Vogel, Phytotaxa 166: 104. 2014. *Ione bifurcatoflorens* Fukuy
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum bisetum** Lindl., Ann. Mag. Nat. Hist. 10: 186. 1842.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum candidum** (Lindl.) Hook.f., Fl. Brit. 5: 770. 1890. *Ione candida* Lindl.
Distribution: Arunachal Pradesh.
- Bulbophyllum capillipes** C.S.P. Parish & Rchb.f., Trans. Linn. Soc. London 30: 150. 1874.
Distribution: Arunachal Pradesh.
- Bulbophyllum careyanum** (Hook.) Spreng., Syst. Veg. 3: 732. 1826. *Anisopetalon careyanum* Hook.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Bulbophyllum cariniflorum** Rchb.f., Ann. Bot. Syst. 6: 258. 1861.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Bulbophyllum caudatum** Lindl., Gen. Sp. Orchid. Pl. 56. 1830.
Distribution: Arunachal Pradesh, Sikkim.
- Bulbophyllum cauliflorum** Hook.f., Fl. Brit. 5: 758. 1890.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum cornu-cervi** King, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 332. 1895.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum crabro** (C.S.P. Parish & Rchb.f.) J.J. Verm., Schuit. & de Vogel, Phytotaxa 166: 106. 2014. *Monomeria crabro* C.S.P. Parish & Rchb.f.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum crassipes** Hook.f., Fl. Brit. 5: 760. 1890.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum cupreum** Lindl., Edwards's Bot. Reg. 24: misc. 95. 1838.
Distribution: Arunachal Pradesh.
- Bulbophyllum cylindraceum** Wall. ex Lindl., Gen. Sp. Orchid. Pl.: 53. 1830. *B. imbricatum* Griff.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum delitescens** Hance, J. Bot. 14: 44. 1876.
Distribution: Arunachal Pradesh.

Bulbophyllum depressum King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 585. 1897.

Distribution: Arunachal Pradesh.

Bulbophyllum disciflorum Rolfe, Bull. Misc. Inform. Kew 1895: 7. 1895.

Distribution: Arunachal Pradesh.

Bulbophyllum elatum (Hook.f.) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 23. 1912. *Cirrhopetalum elatum* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum emarginatum (Finet) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 24. 1912. *Cirrhopetalum emarginatum* Finet.

Distribution: Arunachal Pradesh, Sikkim.

Bulbophyllum eublepharum Rchb.f., Ann. Bot. Syst. 6: 252. 1861.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum gamblei (Hook.f.) Hook.f., Fl. Brit. 6: 188. 1890. *B. leptanthum* Hook.f. var. *gamblei* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum gracilipes King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 119. 1896.

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum griffithii (Lindl.) Rchb.f., Ann. Bot. Syst. 6: 247. 1861. *Sarcopodium griffithii* Lindl.

Distribution: Arunachal Pradesh, Sikkim.

Bulbophyllum guttulatum (Hook.f.) N.P.Balacr., J. Bombay Nat. Hist. Soc. 67: 66. 1970. *Cirrhopetalum guttulatum* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum gymnopus Hook.f., Fl. Brit. 5: 764. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum helenae (Kuntze) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 24. 1912. *Phyllorkis helenae* Kuntze

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum hirtum (Sm.) Lindl. ex Wall., Numer. List: no. 1989. 1829. *Stelis hirta* Sm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum hymenanthum Hook.f., Fl. Brit. 5: 767. 1890.

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum interpositum J.J.Verm., Schuit. & de Vogel, Phytotaxa 197: 59. 2015.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

- Bulbophyllum jainii** (Hynn. & Malhotra) J.J.Verm., Schuit. & de Vogel, Phytotaxa 166: 104. 2014. *Sunipia jainii* Hynn. & Malhotra
Distribution: Arunachal Pradesh.
- Bulbophyllum jeosephii** J.J.Verm., Schuit. & de Vogel, Phytotaxa 166: 106. 2014.
Distribution: Sikkim.
- Bulbophyllum khasyanum** Griff., Not. Pl. Asiat. 3: 284. 1851.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum kingii** Hook.f., Fl. Brit. 5: 760. 1890.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum leopardinum** (Wall.) Lindl. ex Wall., Numer. List: no. 1981. 1829.
Dendrobium leopardinum Wall.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Bulbophyllum leptanthum** Hook.f., Fl. Brit. 5: 759. 1890.
Distribution: Sikkim, West Bengal (Darjeeling).
- Bulbophyllum lobbii** Lindl., Edwards's Bot. Reg. 33: t. 29. 1847.
Distribution: Arunachal Pradesh.
- Bulbophyllum loherianum** (Kraenzl.) Ames, Enum. Philipp. Fl. Pl. 1: 385. 1925.
Cirrhopetalum loherianum Kraenzl.
Distribution: Arunachal Pradesh.
- Bulbophyllum longiflorum** Thouars, Hist. Orchid.: t. 98. 1822.
Distribution: Arunachal Pradesh.
- Bulbophyllum macraei** (Lindl.) Rchb.f., Ann. Bot. Syst. 6: 263. 1861.
Cirrhopetalum macraei Lindl.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Bulbophyllum medioximum** C.S.P. Verm., Schuit & de Vogel, Phytotaxa 166: 104. 2014.
Distribution: Arunachal Pradesh
- Bulbophyllum muscicola** Rchb.f., Flora 55: 275. 1872.
Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling).
- Bulbophyllum nasutum** Rchb.f., Gard. Chron. 1871: 1482. 1871.
Distribution: Arunachal Pradesh.
- Bulbophyllum nodosum** (Rolfe) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 26. 1912. *Cirrhopetalum nodosum* Rolfe
Distribution: Arunachal Pradesh.
- Bulbophyllum obrienianum** Rolfe, Gard. Chron. ser.3, 12: 332. 1892 & Kew Bull. 1893. Append. II. p. 30.
Distribution: Arunachal Pradesh.
- Bulbophyllum odoratissimum** (Sm.) Lindl. ex Wall., Numer. List: no. 1987. 1829

var. **odoratissimum**. *Stelis odoratissima* Sm.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum odoratissimum (Sm.) Lindl. ex Wall. var. **racemosum** N.P. Balakr., J. Bombay Nat. Hist. Soc. 75: 157. 1978.

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum ornatissimum (Rchb.f.) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 26. 1912. *Cirrhopetalum ornatissimum* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum parviflorum C.S.P.Parish & Rchb.f., Trans. Linn. Soc. London 30: 152. 1874.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum penicillium C.S.P.Parish & Rchb.f., Trans. Linn. Soc. London 30: 151. 1874.

Distribution: Arunachal Pradesh, Sikkim.

Bulbophyllum piluliferum King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 76. 1895.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum polyrrhizum Lindl., Gen. Sp. Orchid. Pl.: 53. 1830.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum protractum Hook.f., Fl. Brit. 5: 758. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum pteroglossum Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 71. 1919.

Distribution: Arunachal Pradesh.

Bulbophyllum purpureofuscum J.J. Verm., Schuit. & de Vogel, Phytotaxa 166: 105. 2014.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum putidum (Teijsm. & Binn.) J.J. Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 27 1912. *Cirrhopetalum putidum* Teijsm. & Binn,

Distribution: Sikkim.

Bulbophyllum reichenbachianum Kraenzl., Bot. Jahrb. Syst. 17: 49. 1893.

Distribution: Arunachal Pradesh.

Bulbophyllum repens Griff., Not. Pl. Asiat. 3: 293. 1851.

Distribution: Arunachal Pradesh, Sikkim.

Bulbophyllum reptans (Lindl.) Lindl. ex Wall., Numer. List: no. 1988. 1829.

Tibrachia reptans Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum retusiusculum Rchb.f., Gard. Chron. 1869: 1182. 1869.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum rigidum King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 169. 1895.

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum rolfei (Kuntze) Seidenf., Dansk Bot. Ark. 33: 149. 1979. *Phyllorkis rolfei* Kuntze

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum roseopictum J.J.Verm., Schuit. & de Vogel, Phytotaxa 166: 105. 2014.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum rothschildianum (O'Brien) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 27. 1912. *Cirrhopetalum rothschildianum* O'Brien

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum roxburghii (Lindl.) Rchb.f., Ann. Bot. Syst. 6: 263. 1861. *Cirrhopetalum roxburghii* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum rufinum Rchb.f., Xenia Orchid. 3: 45. 1881.

Distribution: Sikkim.

Bulbophyllum sarcophylloides Garay, Hamer & Siegerist, Nordic J. Bot. 14: 620. 1994.

Distribution: Arunachal Pradesh.

Bulbophyllum sarcophyllum (King & Pantl.) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 27. 1912. *Cirrhopetalum sarcophyllum* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum scabratum Rchb.f., Ann. Bot. Syst. 6: 259. 1861.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

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

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum spathulatum (Rolfe ex E.W.Cooper) Seidenf., Bot. Tidsskr. 65: 347. 1970. *Cirrhopetalum spathulatum* Rolfe ex E.W. Cooper

Distribution: Arunachal Pradesh, Sikkim.

Bulbophyllum stenobulbon C.S.P.Parish & Rchb.f., Trans. Linn. Soc. London 30: 153. 1874.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum striatum (Griff.) Rchb.f., Ann. Bot. Syst. 6: 257. 1861. *Dendrobium striatum* Griff.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (Plate 310e)

Bulbophyllum sunipia J.J.Verm., Schuit. & de Vogel, Phytotaxa 166: 105. 2014.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulbophyllum tortuosum (Blume) Lindl., Gen. Sp. Orchid. Pl.: 50. 1830. *Diphyes tortuosa* Blume

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum trichocephalum (Schltr.) Tang & F.T.Wang., Acta Phytotax. Sin. 1: 90 1951. va.r. **trichocephalum**

Distribution: Arunachal Pradesh, Sikkim,

Bulbophyllum trichocephalum (Schltr.) Tang & F.T.Wang var. **wallongense** Agrawala, Sabap. & H.J.Chowdhery, Indian J. Forest. 27: 305 2004.

Distribution: Arunachal Pradesh.

Bulbophyllum tridentatum Kraenzl., Bot. Tidsskr. 24: 8. 1901.

Distribution: Arunachal Pradesh.

Bulbophyllum triste Rchb.f., Ann. Bot. Syst. 6: 253. 1861.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Bulbophyllum umbellatum Lindl., Gen. Sp. Orchid. Pl.: 56. 1830.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

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

Distribution: Sikkim, West Bengal (Darjeeling).

Bulbophyllum wallichii Rchb.f., Ann. Bot. Syst. 6: 259. 1861.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Bulbophyllum xylophyllum C.S.P.Parish & Rchb.f., Trans. Linn. Soc. London 30: 151. 1874.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Bulbophyllum yoksunense J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 2, 8: 29. 1912.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Bulleyia Schltr.

Bulleyia yunnanensis Schltr., Notes Roy. Bot. Gard. Edinburgh 5: 108. 1912.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Calanthe R. Br.

Calanthe alismifolia Lindl., Fol. Orchid. Calanthe: 8. 1854.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Calanthe alpina Hook.f. ex Lindl., Fol. Orchid. Calanthe: 4. 1854.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Calanthe biloba Lindl., Fol. Orchid. Calanthe: 3. 1854.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Calanthe brevicornu Lindl., Gen. Sp. Orchid. Pl. 251. 1833.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

- Calanthe clavata** Lindl., Gen. Sp. Orchid. Pl. 251. 1833.
Distribution: Sikkim, West Bengal (Darjeeling).
- Calanthe davidii** Franch., Nouv. Arch. Mus. Hist. Nat., ser. 2, 10: 85. 1887.
Distribution: Arunachal Pradesh, Uttarakhand.
- Calanthe densiflora** Lindl., Gen. Sp. Orchid. Pl.: 250. 1833.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (**Plate 312a**)
- Calanthe griffithii** Lindl., Paxton's Fl. Gard. 3: 37. 1852.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Calanthe herbacea** Lindl., Fol. Orchid. Calanthe: 10. 1854.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Calanthe keshabii** Lucksom, J. Forest. 15: 136. 1992.
Distribution: Arunachal Pradesh, Sikkim.
- Calanthe mannii** Hook.f., Fl. Brit. 5: 850. 1890.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.
- Calanthe masuca** (D.Don) Lindl., Gen. Sp. Orchid. Pl.: 249. 1833. *Bletia masuca* D.Don
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Calanthe odora** Griff., Not. Pl. Asiat. 3: 365. 1851.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Calanthe plantaginea** Lindl., Gen. Sp. Orchid. Pl.: 250. 1833.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.
- Calanthe puberula** Lindl., Gen. Sp. Orchid. Pl.: 252. 1833.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Calanthe sylvatica** (Thouars) Lindl., Gen. Sp. Orchid. Pl.: 250. 1833. *Centrosis sylvatica* Thouars.
Distribution: West Bengal (Darjeeling). (**Plate 311**)
- Calanthe tricarinata** Lindl., Gen. Sp. Orchid. Pl.: 252. 1833.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Calanthe triplicata** (Willemet) Ames, Philipp. J. Sci. 2: 326. 1907. *Orchis triplicata* Willemet
Distribution: Arunachal Pradesh, West Bengal (Darjeeling).
- Calanthe trulliformis** King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 337. 1895.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Calanthe uncata** Lindl., Fol. Orchid. Calanthe: 6. 1855.
Distribution: West Bengal (Darjeeling).

Calanthe whiteana King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 121. 1896.

Distribution: Sikkim.

Calanthe yuksomnensis Luckson, J. Bombay Nat. Hist. Soc. 95: 319. 1998.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cephalanthera Rich

Cephalanthera damasonium (Miller) Druce, Ann. Scott. Nat. Hist. 1906: 225. 1906. *Serapias damasonium* Miller

Distribution: Arunachal Pradesh.

Cephalanthera longifolia (L.) Fritsch, Oesterr. Bot. Z. 38: 81. 1888. *Serapias helleborine* L. var. *longifolia* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Cephalantheropsis Guillaumin

Cephalantheropsis obcordata (Lindl.) Ormerod, Orchid Digest 62: 157. 1998. *Bletia obcordata* Lindl.

Distribution: Arunachal Pradesh, Sikkim.

Ceratostylis Blume

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

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Ceratostylis subulata Blume, Bijdr. Fl. Ned. Ind.: 306. 1825.

Distribution: West Bengal (Darjeeling).

Chamaegastrodia Makino &f. Maik.

Chamaegastrodia shikokiana Makino & Maek., Bot. Mag. (Tokyo) 49: 596. 1935.

Distribution: Arunachal Pradesh.

Cheirostylis Blume

Cheirostylis griffithii Lindl., J. Proc. Linn. Soc., Bot. 1: 188. 1857.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cheirostylis gunnarii A.N.Rao, Nordic J. Bot. 18: 23. 1998. Distribution: Arunachal Pradesh.

Cheirostylis moniliformis (Griff.) Seidenf., Dansk Bot. Ark. 32(2): 69. 1978.

Goodyera moniliformis Griff.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cheirostylis pusilla Lindl., Gen. Sp. Orchid. Pl.: 489. 1840.

Distribution: Arunachal Pradesh.

Cheirostylis sessanica A.N.Rao, Nordic J. Bot. 8: 339. 1988.

Distribution: Arunachal Pradesh.

Cheirostylis tippica A.N. Rao, Arunachal Forest News 9(2): 17. 1991.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cheirostylis yunnanensis Rolfe, Bull. Misc. Inform. Kew 1896: 201. 1896.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Chiloschista Lindl.

Chiloschista parishii Seidenf., Opera Bot. 95: 176. 1988.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Chiloschista usneoides (D. Don) Lindl., Edwards's Bot. Reg. 18: t. 1522. 1832.

Epidendrum usneoides D. Don

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Chrysoglossum Blume

Chrysoglossum assamicum Hook.f., Fl. Brit. 5: 784. 1890.

Distribution: Arunachal Pradesh.

Chrysoglossum ornatum Blume, Bijdr. Fl. Ned. Ind.: 338. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisocentron Brühl

Cleisocentron pallens (Cathcart ex Lindl.) N. Pearce & P.J. Cribb, Edinburgh J.

Bot. 58: 118. 2001. *Saccolabium pallens* Cathcart ex Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisostoma Blume

Cleisostoma appendiculatum (Lindl.) Benth. & Hook.f. ex B.D. Jacks., Index

Kew. 1: 555. 1893. *Aerides appendiculata* Lindl.

Distribution: Arunachal Pradesh.

Cleisostoma aspersum (Rchb.f.) Garay, Bot. Mus. Leaflet. 23: 169. 1972.

Sarcanthus aspersus Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cleisostoma discolor Lindl., Edwards's Bot. Reg. 31: misc. 59. 1845.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisostoma filiforme (Lindl.) Garay, Bot. Mus. Leaflet. 23: 171. 1972.

Sarcanthus filiformis Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisostoma linearilobatum (Seidenf. & Smitinand) Garay, Bot. Mus. Leaflet. 23:

172. 1972. *Sarcanthus linearilobatus* Seidenf. & Smitinand

Distribution: Arunachal Pradesh, Sikkim.

Cleisostoma paniculatum (Ker Gawl.) Garay, Bot. Mus. Leaflet. 23: 173. 1972.

Aerides paniculata Ker Gawl.

Distribution: Arunachal Pradesh.

Cleisostoma racemiferum (Lindl.) Garay, Bot. Mus. Leafl. 23: 173. 1972.
Saccolabium racemiferum Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisostoma simondii (Gagnep.) Seidenf., Dansk Bot. Ark. 29(3): 66. 1975.
Vanda simondii Gagnep.

Distribution: Arunachal Pradesh, Sikkim.

Cleisostoma striatum (Rchb.f.) N.E.Br., Suppl. Johnson's Gard. Dict.: 901.
1882. *Echioglossum striatum* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisostoma subulatum Blume, Bijdr. Fl. Ned. Ind.: 363. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cleisostoma tricallosum S.N.Hegde & A.N.Rao, Orchid Rev. 91(1072): 54.
1983.

Distribution: Arunachal Pradesh.

Cleisostoma williamsonii (Rchb.f.) Garay, Bot. Mus. Leafl. 23: 176. 1972.
Sarcanthus williamsonii Rchb.f.

Distribution: Arunachal Pradesh.

Coelogyne Lindl.

Coelogyne albolutea Rolfe, Bull. Misc. Inform. Kew 1908: 414. 1908.

Distribution: Uttarakhand.

Coelogyne arunachalensis H.J.Chowdhery & G.D.Pal, Nordic J. Bot. 17: 369.
1997.

Distribution: Arunachal Pradesh.

Coelogyne barbata Lindl. ex Griff., Itin. Pl. Khasyah Mts.: 72. 1848.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Coelogyne corymbosa Lindl., Fol. Orchid. Coelogyne: 7. 1854.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (**Plate 312b**)

Coelogyne cristata Lindl., Coll. Bot. t. 33. 1824.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Coelogyne fimbriata Lindl., Bot. Reg. 11: t. 868. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Coelogyne flaccida Lindl., Gen. Sp. Orchid. Pl.: 39. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Coelogyne fuliginosa Lodd. ex Hook., Bot. Mag. 75: t. 4440. 1849.

Distribution: Arunachal Pradesh, Sikkim.

Coelogyne fuscescens Lindl., Gen. Sp. Orchid. Pl.: 41. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

- Coelogyne griffithii** Hook.f., Fl. Brit. 5: 838. 1890.
Distribution: Arunachal Pradesh.
- Coelogyne hajrae** Phukan, Orchid Rev. 105: 94. 1997.
Distribution: Arunachal Pradesh.
- Coelogyne holochila** P.F.Hunt & Summerh., Kew Bull. 20: 52. 1966.
Distribution: Sikkim.
- Coelogyne longipes** Lindl., Fol. Orchid. Coelogyne: 10. 1854.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Coelogyne micrantha** Lindl., Gard. Chron. 1855: 173. 1855.
Distribution: Arunachal Pradesh, West Bengal (Darjeeling).
- Coelogyne nitida** (Wall. ex D.Don) Lindl., Coll. Bot. t. 33. 1824. *Cymbidium nitidum* Wall. ex D.Don
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Coelogyne occultata** Hook.f., Fl. Brit. 5: 832. 1890.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Coelogyne ovalis** Lindl., Edwards's Bot. Reg. 24: misc. 91. 1838.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
(Plate 313a)
- Coelogyne pantlingii** Lucksom, Orchid Rev. 113(1262): 108. 2005.
Distribution: Sikkim.
- Coelogyne pempahisheyana** H.J.Chowdhery, J. Forest. 27(1): 121. 2004.
Distribution: West Bengal (Darjeeling).
- Coelogyne prolifera** Lindl., Gen. Sp. Orchid. Pl.: 40. 1830.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Coelogyne punctulata** Lindl., Coll. Bot.: t. 33. 1824.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Coelogyne raizadae** S.K.Jain & S.Das, Proc. Acad. Sci., B 87(5): 119. 1978.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Coelogyne rigida** C.S.P.Parish & Rchb.f., Trans. Linn. Soc. London 30: 146. 1874.
Distribution: Arunachal Pradesh.
- Coelogyne schultesii** S.K. Jain & S. Das, Proc. n Acad. Sci., B 87(5): 121. 1978.
Distribution: Arunachal Pradesh, Sikkim.
- Coelogyne stricta** (D.Don) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 184. 1919. *Cymbidium strictum* D.Don
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Coelogyne viscosa** Rchb.f., Allg. Gartenzeitung 24: 218. 1856.
Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Collabium Blume

Collabium chinense (Rolfe) Tang & F.T.Wang, Fl. Hainan. 4: 217. 1977.
Nephelaphyllum chinense Rolfe
Distribution: Arunachal Pradesh.

Corallorrhiza Gagnebin

Corallorrhiza trifida Châtel., Spec. Inaug. Corallorrhiza: 8. 1760. Distribution:
Jammu & Kashmir, Uttarakhand.

Corybas Salisb.

Corybas himalaicus (King & Pantl.) Schltr., Repert. Spec. Nov. Regni Veg. 19:
19. 1923. *Corysanthes himalaica* King & Pantl.
Distribution: Arunachal Pradesh, Sikkim. **(Plate 313b)**

Corymborkis Thouars

Corymborkis veratrifolia (Reinw.) Blume, Coll. Orchid.: 125. 1859. *Hysteria*
veratrifolia Reinw.
Distribution: Arunachal Pradesh, Sikkim.

Cremastra Lindl.

Cremastra appendiculata (D.Don) Makino, Bot. Mag. (Tokyo) 18: 24. 1904.
Cymbidium appendiculatum D.Don
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Crepidium Blume

Crepidium acuminatum (D.Don) Szlach., Fragm. Florist. Geobot., Suppl. 3: 123.
1995. *Malaxis acuminata* D.Don
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West
Bengal (Darjeeling).

Crepidium aphyllum (King & Pantl.) A.N.Rao, J. Orchid Soc. 14: 65. 2000.
Microstylis aphylla King & Pantl.
Distribution: Sikkim.

Crepidium biauratum (Lindl.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 124.
1995. *Microstylis biaurita* Lindl.
Distribution: Uttarakhand.

Crepidium calophyllum (Rchb.f.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 125.
1995. *Microstylis calophylla* Rchb.f.
Distribution: Arunachal Pradesh, Sikkim.

Crepidium josephianum (Rchb.f.) Marg., Ann. Bot. Fenn. 39: 65. 2002. *Microstylis*
josephiana Rchb.f.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Crepidium khasianum (Hook.f.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 127.
1995. *Microstylis khasiana* Hook.f.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Crepidium mackinnonii (Duthie) Szlach., *Fragm. Florist. Geobot., Suppl. 3:* 128. 1995. *Microstylis mackinnonii* Duthie
Distribution: Uttarakhand, West Bengal (Darjeeling).

Crepidium maximowiczianum (King & Pantl.) Szlach., *Fragm. Florist. Geobot., Suppl. 3:* 129. 1995. *Microstylis maximowicziana* King & Pantl.
Distribution: Sikkim, West Bengal (Darjeeling).

Crepidium purpureum (Lindl.) Szlach., *Fragm. Florist. Geobot., Suppl. 3:* 131. 1995. *Microstylis purpurea* Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Crepidium saprophytum (King & Pantl.) A.N.Rao, *J. Orchid Soc.* 13: 54. 2000. *Microstylis saprophyta* King & Pantl.
Distribution: Sikkim.

Cryptochilus Wall.

Cryptochilus luteus Lindl., *J. Proc. Linn. Soc., Bot.* 3: 21. 1859.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cryptochilus sanguineus Wall., *Tent. Fl. Nepal.*: 36. 1824.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cryptostylis R.Br.

Cryptostylis arachnites (Blume) Hassk., *Coll. Orchid.*: 133. 1859. *Zosterostylis arachnites* Blume
Distribution: Sikkim.

Cymbidium Sw.

Cymbidium aloifolium (L.) Sw., *Nova Acta Regiae Soc. Sci. Upsal.* 6: 73. 1799. *Epidendrum aloifolium* L.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cymbidium bicolor Lindl. subsp. **obtusum** Du Puy & P.J.Cribb, *Genus Cymbidium*: 70. 1988.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cymbidium cochleare Lindl., *J. Proc. Linn. Soc., Bot.* 3: 28. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Cymbidium cyperifolium Wall. ex Lindl., *Gen. Sp. Orchid. Pl.*: 163. 1833. subsp. **cyperifolium**.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cymbidium cyperifolium Wall. ex Lindl. var. **szechuanicum** (Y.S.Wu & S.C.Chen) S.C.Chen & Z.J.Liu, *Acta Phytotax. Sin.* 41: 83. 2003. *C. szechuanicum* Y.S.Wu & S.C.Chen
Distribution: Arunachal Pradesh.

Cymbidium dayanum Rehb.f., *Gard. Chron.* 1869: 710. 1869.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

- Cymbidium devonianum** Lindl. ex Paxton, Paxton's Mag. Bot. 10: 97. 1843.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium eburneum** Lindl., Edwards's Bot. Reg. 33: t. 67. 1847.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium elegans** Lindl., Gen. Sp. Orchid. Pl.: 163. 1833.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium ensifolium** (L.) Sw. subsp. **haematodes** (Lindl.) Du Puy & P.J.Cribb ex Govaerts, World Checkl. Seed Pl. 3(1): 20. 1999. *C. haematodes* Lindl. Distribution: Arunachal Pradesh, Sikkim.
- Cymbidium erythraeum** Lindl., J. Proc. Linn. Soc., Bot. 3: 30. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidiumx gammieanum** King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 339 1895.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium goeringii** (Rchb.f.) Rchb.f., Ann. Bot. Syst. 3: 547. 1852. var. **goeringii**. *Maxillaria goeringii* Rchb.f.
Distribution: Arunachal Pradesh.
- Cymbidium hookerianum** Rchb.f., Gard. Chron. 1866: 7. 1866.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium insigne** Rolfe, Gard. Chron., ser. 3, 35: 387. 1904.
Distribution: West Bengal (Darjeeling).
- Cymbidium iridioides** D.Don, Prodr. Fl. Nepal.: 36. 1825.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Cymbidium lancifolium** Hook., Exot. Fl. 1: t. 51. 1823.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium lowianum** (Rchb.f.) Rchb.f., Gard. Chron., n.s., 11: 332. 1879. *C. giganteum* Blume var. *lowianum* Rchb.f.
Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling).
- Cymbidium macrorhizon** Lindl., Gen. Sp. Orchid. Pl.: 162. 1833.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Cymbidium mastersii** Griff. ex Lindl., Edwards's Bot. Reg. 31: t. 50. 1845.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium munronianum** King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 338. 1895.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Cymbidium sinense** (Andrews) Willd., Sp. Pl. 4: 111. 1805. *Epidendrum sinense* Andrews
Distribution: Arunachal Pradesh.

Cymbidium whiteae King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 193. 1898.
Distribution: Sikkim.

Cypripedium L.

Cypripedium cordigerum D. Don, Prodr. Fl. Nepal.: 37. 1825.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Cypripedium elegans Rchb.f., Flora 69: 561. 1886.
Distribution: Sikkim, Uttarakhand.

Cypripedium himalaicum Rolfe, J. Linn. Soc., Bot. 29: 319. 1892.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

(Plate 314a)

Cypripedium tibeticum King ex Rolfe, J. Linn. Soc., Bot. 29: 320. 1892.
Distribution: Arunachal Pradesh, Sikkim.

Cyrtosia Blume

Cyrtosia javanica Blume, Bijdr. Fl. Ned. Ind. 396. 1825. Distribution: Arunachal Pradesh.

Dactylorhiza Neck. ex Nevski

Dactylorhiza hatagirea (D. Don) Soo, Nom. Nov. Gen. Dactylorhiza: 4. 1962.
Orchis hatagirea D. Don
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

(Plate 314b)

Dactylorhiza kafiriana Renz, Fl. Iranica 126: 125. 1978.
Distribution: Jammu & Kashmir.

Dactylorhiza umbrosa (Kar. & Kir.) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 4: 332. 1937. *Orchis umbrosa* Kar. & Kir.
Distribution: Jammu & Kashmir; 3645 m.

Dactylorhiza viridis (L.) R.M. Bateman, Pridgeon & M.W. Chase, Lindleyana 12: 129. 1997. *Satyrium viride* L.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Dendrobium Sw.

Dendrobium acinaciforme Roxb., Fl. Ind. ed. 1832, 3: 487. 1832.
Distribution: Arunachal Pradesh.

Dendrobium aduncum Lindl., Edwards's Bot. Reg. 28: misc. 58. 1842.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium amoenum Wall. ex Lindl., Gen. Sp. Orchid. Pl. 78. 1830.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium anceps Sw., Kongl. Vetensk. Acad. Nya Handl. 21: 246. 1800.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium angulatum Lindl., Gen. Sp. Orchid. Pl.: 88. 1830.

Distribution: Arunachal Pradesh.

Dendrobium aphyllum (Roxb.) C.E.C.Fisch., Fl. Madras: 1416. 1928. *Limodorum aphyllum* Roxb.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium arunachalense C.Deori, S.K.Sarma, Phukan & A.A.Mao, J. Orchid Soc. 20: 81. 2006.

Distribution: Arunachal Pradesh.

(Plate 314c)

Dendrobium bensoniae Rchb.f., Bot. Zeitung (Berlin) 25: 230. 1867.

Distribution: Sikkim.

Dendrobium bicameratum Lindl., Edwards's Bot. Reg. 25: misc. 59. 1839.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium chrysanthum Wall. ex Lindl., Edwards's Bot. Reg. 15: t. 1299. 1830.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium chryseum Rolfe, Gard. Chron., ser. 3, 3: 233. 1888.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium chrysotoxum Lindl., Edwards's Bot. Reg. 33: t. 19. 1847.

Distribution: Arunachal Pradesh, Sikkim.

Dendrobium crepidatum Lindl. & Paxton, Paxton's Fl. Gard. 1: 63. 1850.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium cretaceum Lindl., Edwards's Bot. Reg. 33: t. 62. 1847.

Distribution: Arunachal Pradesh, Sikkim.

Dendrobium crystallinum Rchb.f., Gard. Chron. 1868: 572. 1868.

Distribution: Sikkim.

Dendrobium cumulatum Lindl., Gard. Chron. 1855: 756. 1855.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium darjeelingense Pradhan, Orchids: Guide Identif. & Cult. 2: 336. 1979.

Distribution: West Bengal (Darjeeling).

Dendrobium densiflorum Lindl. ex Wall., Pl. Asiat. Rar. 1: 34. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium denudans D.Don, Prodr. Fl. Nepal. 34. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium devonianum Paxton, Paxton's Mag. Bot. 7: 169. 1840.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium dickasonii L.O.Williams, Bot. Mus. Leafl. 8: 107. 1940.

Distribution: Sikkim.

Dendrobium eriiflorum Griff., Ic. Pl. Asiat. 3: 316. 1851.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

- Dendrobium falconeri** Hook., Bot. Mag. 82: t. 4944. 1856.
Distribution: Arunachal Pradesh, Sikkim. (Plate 315a)
- Dendrobium farmeri** Paxton, Paxton's Mag. Bot. 15: 241. 1849.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium fimbriatum** Hook., Exot. Fl. 1: t. 71. 1823. var. **fimbriatum**
Distribution: West Bengal (Darjeeling).
- Dendrobium fimbriatum** Hook. var. **oculatum** Hook., Bot. Mag. 71: t. 4160. 1845.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Dendrobium formosum** Roxb. ex Lindl. Pl. Asiat. Rar. 1: 34. 1830.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium gibsonii** Paxton, Paxton's Mag. Bot. 5: 169. 1838.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium herbaceum** Lindl., Edwards's Bot. Reg. 26: misc. 69. 1840. *D. ramosissimum* Wight
Distribution: West Bengal (Darjeeling).
- Dendrobium heterocarpum** Wall. ex Lindl. Gen. Sp. Orchid. Pl.: 78. 1830. *D. aureum* Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Dendrobium hookerianum** Lindl., J. Proc. Linn. Soc., Bot. 3: 8. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium infundibulum** Lindl., J. Proc. Linn. Soc., Bot. 3: 16. 1859.
Distribution: Sikkim. (Plate 315b)
- Dendrobium jenkinsii** Wall. ex Lindl., Edwards's Bot. Reg. 25: t. 37. 1839.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium khasianum** Deori, J. Orchid Soc. 2: 73. 1988.
Distribution: Arunachal Pradesh. (Plate 315c)
- Dendrobium lindleyi** Steud., Nomencl. Bot., ed. 2, 1: 490. 1840.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium lituiflorum** Lindl., Gard. Chron. 1856: 372. 1856.
Distribution: Arunachal Pradesh.
- Dendrobium longicornu** Lindl., Gen. Sp. Orchid. Pl.: 80. 1830.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Dendrobium macrostachyum** Lindl., Gen. Sp. Orchid. Pl.: 78. 1830.
Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling).
- Dendrobium mannii** Ridl., J. Linn. Soc., Bot. 32: 246. 1896.
Distribution: Arunachal Pradesh.

Dendrobium moniliforme (L.) Sw., Nova Acta Regiae Soc. Sci. Upsal. 6: 85. 1799.
Epidendrum moniliforme L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium monticola P.F.Hunt & Summerh., Taxon 10: 110. 1961.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Dendrobium moschatum (Buch.-Ham.) Sw., Neues J. Bot. 1: 94. 1805. *Epidendrum moschatum* Buch.-Ham.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dendrobium nareshbahadurii H.B.Naithani, n Forest. 112: 66. 1986.

Distribution: Arunachal Pradesh.

Dendrobium nathanielis Rchb.f., Cat. Orch.-Samml. Schiller, ed. 3: 26. 1857.

Distribution: Arunachal Pradesh.

Dendrobium nobile Lindl., Gen. Sp. Orch. Pl.: 79. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium normale Falc., Ann. Nat. Hist. 3: 196. 1839.

Distribution: Uttarakhand.

Dendrobium numaldeorii C.Deori, Hynn. & Phukan, Orchid Rev. 112: 279. 2004.

Distribution: Arunachal Pradesh.

Dendrobium ochreatum Lindl., Edwards's Bot. Reg. 21: t. 1756. 1835.

Distribution: Sikkim, West Bengal (Darjeeling).

Dendrobium palpebrae Lindl., J. Hort. Soc. London 5: 33. 1850.

Distribution: Arunachal Pradesh.

Dendrobium parciflorum Rchb.f. ex Lindl., J. Proc. Linn. Soc., Bot. 3: 4. 1859.

D. perula Rchb.f.

Distribution: Arunachal Pradesh.

Dendrobium parishii Rchb.f., Bot. Zeitung (Berlin) 21: 236. 1863.

Distribution: Arunachal Pradesh, Sikkim.

Dendrobium peguanum Lindl., J. Proc. Linn. Soc., Bot. 3: 19. 1859.

Distribution: Sikkim, West Bengal (Darjeeling).

Dendrobium pendulum Roxb., Fl. Ind. ed. 1832, 3: 484. 1832.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium porphyrochilum Lindl., J. Proc. Linn. Soc., Bot. 3: 18. 1859.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Dendrobium praecinctum Rchb.f., Gard. Chron., n.s., 7: 750. 1877.

Distribution: Arunachal Pradesh, Sikkim.

Dendrobium primulinum Lindl., Gard. Chron. 1858: 400. 1858.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand

- Dendrobium pulchellum** Roxb. ex Lindl., Gen. Sp. Orchid. Pl.: 82. 1830.
Distribution: Arunachal Pradesh, Sikkim.
- Dendrobium ruckeri** Lindl., Edwards's Bot. Reg. 29: misc. 25. 1843.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium salaccense** (Blume) Lindl., Gen. Sp. Orchid. Pl.: 86. 1830. *Grastidium salaccense* Blume
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (Plate 316)
- Dendrobium sessanicum** Apang, J. Econ. Taxon. Bot. 36: 372. 2012.
Distribution: Arunachal Pradesh; 1600 m.
- Dendrobium stuposum** Lindl., Edwards's Bot. Reg. 24: misc. 52. 1838.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium sulcatum** Lindl., Edwards's Bot. Reg. 24: t. 65. 1838.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium terminale** C.S.P.Parish & Rchb.f., Trans. Linn. Soc. London 30: 149. 1874.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Dendrobium thyrsiflorum** Rchb.f. ex E.Andre, Ill. Hort. 22: 88, t. 207. 1875.
Distribution: Sikkim.
- Dendrobium transparens** Wall. ex Lindl., Gen. Sp. Orchid. Pl. 79. 1830.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling). (Plate 317a)
- Dendrobium vexabile** Rchb.f., Gard. Chron., n.s. 21: t. 271. 1884.
Distribution: Arunachal Pradesh.
- Dendrobium wardianum** R.Warner, Select Orchid. Pl. t. 19. 1862.
Distribution: Arunachal Pradesh, Sikkim.
- Dendrobium williamsonii** Day & Rchb.f., Gard. Chron. 1869: 78. 1869.
Distribution: Sikkim.
- Didymoplexis** Griff.
- Didymoplexis himalaica** Schltr., Bull. Herb. Boissier, ser. 2, 6: 299. 1906.
Distribution: West Bengal (Darjeeling).
- Didymoplexis pallens** Griff., Calcutta J. Nat. Hist. 4: 383, t. 17. 1843.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (Plate 318a)
- Dienia** Lindl.
- Dienia cylindrostachya** Lindl., Gen. Sp. Orchid. Pl.: 22. 1830.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Dienia muscifera Lindl., Gen. Sp. Orchid. Pl.: 23. 1830.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling). **(Plate 357b)**

Dienia ophrydis (J.Koenig) Seidenf., Contr. Orchid Fl. Thailand 13: 18. 1997.

Epidendrum ophrydis J. Koenig

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Diglyphosa Blume

Diglyphosa latifolia Blume, Bijdr. Fl. Ned. Ind.: 336. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Diplomeris D.Don

Diplomeris hirsuta (Lindl.) Lindl., Gen. Sp. Orchid. Pl. 331. 1835. *Diplochilos hirsutus* Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Diplomeris josephii A.N.Rao & Swamin., n Orchid J. 2: 5. 1987.

Distribution: Arunachal Pradesh.

Diplomeris pulchella D.Don, Prodr. Fl. Nepal. 26. 1825.

Distribution: Arunachal Pradesh.

Diploprora Hook.f.

Diploprora championii (Lindl.) Hook.f., Fl. Brit. 6: 26. 1890. *Cottonia championii* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Diploprora truncata Rolfe ex Downie, Kew Bull. 1925: 385. 1925.

Distribution: Arunachal Pradesh.

Dithrix Schltr.

Dithrix griffithii (Hook.f.) Ormerod & Gandhi, Phytoneuron 61: 3. 2012. *Habenaria griffithii* Hook.f.

Distribution: Himachal Pradesh, Uttarakhand.

Epigeneium Gagnep

Epigeneium amplum (Lindl.) Summerh., Kew Bull. 1957: 260. 1957. *Dendrobium amplum* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Epigeneium arunachalense A.N.Rao, Bull. Arunachal Forest Res. 25: 3. 2009.

Distribution: Arunachal Pradesh.

Epigeneium chapaense Gagnep., Bull. Mus. Natl. Hist. Nat., ser. 2, 4: 596. 1932.

Distribution: Arunachal Pradesh.

Epigeneium fargesii fargesii (Finet) Gagnep., Bull. Mus. Hist. Nat. (Paris) 2(4): 593. 1932. *Dendrobium fargesii* Finet.

Distribution: Arunachal Pradesh.

Epigeneium fuscescens (Griff.) Summerh., Kew Bull.12: 262. 1957.

Dendrobium fuscescens Griff.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Epigeneium navicularis (N.P. Balakr. & Sud. Chowdhury) A.N. Rao, J. Econ. Taxon. Bot. Add. Ser. 11: 59. 1995. *Katherinea navicularis* N.P. Balakr. & Sud. Chowdhury

Distribution: Arunachal Pradesh.

Epigeneium rotundatum (Lindl.) Summerh., Kew Bull. 12: 264. 1957.

Sarcopodium rotundatum Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Epigeneium treutleri (Hook.f.) Ormerod, Oasis 1(3): 3. 2000. *Coelogyne treutleri* Hook.f.

Distribution: Arunachal, Pradesh, Sikkim.

Epipactis Zinn

Epipactis gigantea Douglas ex Hook., Fl. Bor.Amer. 2: 202. 1839.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim.

Epipactis helleborine (L.) Crantz, Strip. Austr., ed. 2: 467. 1769. *Serapias helleborine* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Epipactis mairei Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 55. 1919.

Distribution: Sikkim.

Epipactis persica (Soo) Hausskn. ex Nannf., Bot. Not. 1946: 2. 1946.

Helleborine persica Soo.

Distribution: Jammu & Kashmir.

Epipactis royleana Lindl., Gen. Sp. Orchid. Pl.: 461. 1840.

Distribution: Sikkim.

Epipactis veratrifolia Boiss. & Hohen., Diagn. Pl. Or. Nov. Ser. 1, 13: 11. 1854.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Epipogium J.F.Gmel. ex Borkh.

Epipogium aphyllum Sw., Summa Veg. Scand.: 32. 1814.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Epipogium roseum (D.Don) Lindl., J. Proc. Linn. Soc., Bot. 1: 177. 1857.

Limodorum roseum D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eria Lindl.

- Eria acervata** Lindl., J. Hort. Soc. London 6: 57. 1850.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (**Plate 317b**)
- Eria alba** Lindl., Gen. Sp. Orchid. Pl.: 67. 1830.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Eria amica** Rchb.f., Xenia Orchid. 2: 162. 1870.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Eria arunachalensis** A.N.Rao, J. Econ. Taxon. Bot. 21: 711. 1997.
Distribution: Arunachal Pradesh.
- Eria bambusifolia** Lindl., J. Proc. Linn. Soc., Bot. 3: 61. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria biflora** Griff., Not. Pl. Asiat. 3: 302. 1851.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria bipunctata** Lindl., Edwards's Bot. Reg. 27: misc. 83. 1841.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.
- Eria bractescens** Lindl., Edwards's Bot. Reg. 27: misc. 18. 1841. var. **bractescens**.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria carinata** Gibson ex Lindl., J. Proc. Linn. Soc., Bot. 3: 50. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria clausa** King & Pantl., J. Asiat. Soc. Beng. 65: 121. 1896.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria clavicaulis** Wall. ex Lindl., Edwards's Bot. Reg. 26: misc. 90. 1840.
Distribution: Arunachal Pradesh.
- Eria connata** J. Joseph, S.N. Hegde & Abbar., Bull. Bot. Surv. 24: 114. 1982.
Distribution: Arunachal Pradesh.
- Eria corneri** Rchb.f., Gard. Chron., n.s. 10: 106. 1878.
Distribution: Arunachal Pradesh.
- Eria coronaria** (Lindl.) Rchb.f., Ann. Bot. Syst. 6: 271. 1861. *Coelogyne coronaria* Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling). (**Plate 317c**)
- Eria cristata** Rolfe, Bull. Misc. Inform. Kew 1892: 139. 1892.
Distribution: Arunachal Pradesh.
- Eria discolor** Lindl., J. Proc. Linn. Soc., Bot. 3: 51. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria excavata** Lindl., Gen. Sp. Orchid. Pl.: 67. 1830.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (**Plate 319a**)

- Eria ferruginea** Lindl., Edwards's Bot. Reg. 25: t. 35. 1839.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria glandulifera** Deori & Phukan, J. Orchid Soc. India 2: 55. 1988.
Distribution: Arunachal Pradesh.
- Eria globulifera** Seidenf., Opera Bot. 62: 125. 1982.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Eria gloensis** Ormerod & D.K.Agrawala, Taiwania 59: 206. 2014.
Distribution: Arunachal Pradesh; 1220 m.
- Eria graminifolia** Lindl. J. Proc. Linn. Soc., Bot. 3: 54. 1859.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria hegdei** D.K.Agrawala & H.J.Chowdhery, Phytotaxonomy 8: 8. 2008 (2009).
Distribution: Arunachal Pradesh.
- Eria javanica** (Sw.) Blume, Rumphia 2: 23. 1836. *Dendrobium javanicum* Sw.
Distribution: Arunachal Pradesh, Sikkim.
- Eria kamlangensis** A.N.Rao, J. Orchid Soc. 16: 61. 2002.
Distribution: Arunachal Pradesh.
- Eria lasiopetala** (Willd.) Ormerod, Opera Bot. 124: 22. 1995. *Aerides lasiopetala* Willd.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
(Plate 319c)
- Eria lohitensis** A.N.Rao, Harid. & S.N.Hedge, J. Bombay Nat. Hist. Soc. 86: 229. 1989.
Distribution: Arunachal Pradesh.
- Eria muscicola** (Lindl.) Lindl., J. Proc. Linn. Soc., Bot. 3: 47. 1859. *Dendrobium muscicola* Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Eria occidentalis** Seidenf., Nordic J. Bot. 2: 15. 1982.
Distribution: Uttarakhand.
- Eria paniculata** Lindl., Pl. Asiat. Rar. 1: 32. 1830.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria pannea** Lindl., Edwards's Bot. Reg. 28: misc. 64. 1842.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Eria pulchella** Lindl., Edwards's Bot. Reg. 27: Misc. 52. 1841.
Distribution: Arunachal Pradesh.
- Eria pudica** Ridl., J. Linn. Soc., Bot. 32: 294. 1896.
Distribution: Arunachal Pradesh.
- Eria pumila** Lindl., Gen. Sp. Orchid. Pl.: 68. 1830.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Eria pusilla (Griff.) Lindl., J. Proc. Linn. Soc., Bot. 3: 48. 1859. *Conchidium pusillum* Griff

Distribution: Arunachal Pradesh, Sikkim.

Eria reticosa Wight, Icon. Pl. Ind. Orient. 5(1): 4, t. 1637. 1851.

Distribution: Uttarakhand.

Eria sharmae H.J.Chowdhery, G.S.Giri & G.D.Pal, J. Forest. 16: 91. 1993.

Distribution: Arunachal Pradesh.

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

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eria stricta Lindl., Coll. Bot. 8: t. 41b. 1825.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Eria tomentosa (J.Koenig) Hook.f., Fl. Brit. 5: 803. 1890. *Epidendrum tomentosum* J. Koenig

Distribution: Arunachal Pradesh.

Eria vittata Lindl., J. Proc. Linn. Soc., Bot. 3: 51. 1859.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Eriodes Rolfe

Eriodes barbata (Lindl.) Rolfe, Orchid Rev. 23: 326. 1915. *Tainia barbata* Lindl.

Distribution: Arunachal Pradesh.

Erythrodes Blume

Erythrodes blumei (Lindl.) Schltr., Fl. Schutzgeb. Südsee, Nachtr.: 87. 1905. *Physurus blumei* Lindl.

Distribution: Arunachal Pradesh.

Erythrodes hirsuta (Griff.) Ormerod, Contr. Orchid Fl. Thailand 13: 12. 1997.

Goodyera hirsuta Griff.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Erythrorchis Blume

Erythrorchis altissima (Blume) Blume, Rumphia 1: 200. 1837. *Cyrtosia altissima* Blume

Distribution: Arunachal Pradesh.

Esmeralda Rchb.f.

Esmeralda cathcartii (Lindl.) Rchb.f., Xenia Orchid. 2: 39. 1862. *Vanda cathcartii* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Esmeralda clarkei Rchb.f., Gard. Chron., n.s., 26: 552. 1886.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Eulophia R.Br.

Eulophia bicallosa (D.Don) P.F.Hunt & Summerh., Kew Bull. 20: 60. 1966. *Bletia bicallosa* D.Don

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eulophia bracteosa Lindl., Gen. Sp. Orchid. Pl. 180.1833.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

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

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eulophia epidendraea (J.Koenig) Schltr., Die Orchideen 146. 1915. *Serapias epidendraea* J.Koenig

Distribution: Uttarakhand, West Bengal (Darjeeling).

Eulophia explanata Lindl., Gen. Sp. Orchid. Pl.: 180. 1833.

Distribution: Uttarakhand, West Bengal (Darjeeling).

Eulophia flava (Lindl.) Hook.f., Fl. Brit. 6: 7. 1890. *Cyrtopera flava* Lindl.

Distribution: Uttarakhand.

Eulophia graminea Lindl., Gen. Sp. Orchid. Pl.: 182. 1833.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eulophia herbacea Lindl., Gen. Sp. Orchid. Pl.: 182. 1833.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eulophia mackinnonii Duthie, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 71: 40. 1902.

Distribution: Uttarakhand.

Eulophia mannii (Rchb.f.) Hook.f., Fl. Brit. 6: 4. 1890. *Cyrtopera mannii* Rchb.f.

Distribution: Sikkim, West Bengal (Darjeeling).

Eulophia obtusa (Lindl.) Hook.f., Fl. Brit. 6: 3. 1890. *Cyrtopera obtusa* Lindl.

Distribution: Uttarakhand.

Eulophia ochreatea Lindl., J. Proc. Linn. Soc., Bot. 3: 24. 1859.

Distribution: West Bengal (Darjeeling).

Eulophia promensis Lindl., Gen. Sp. Orchid. Pl.: 181. 1833.

Distribution: Sikkim, West Bengal (Darjeeling).

Eulophia spectabilis (Dennst.) Suresh, C.R. Suresh & Manilal, Interpr. Van Rheede's Hort. Malab.: 300. 1988. *Wolfia spectabilis* Dennst.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Eulophia zollingeri (Rchb.f.) J.J.Sm., Orch. Java: 228. 1905. *Cyrtopera zollingeri* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Flickingeria A.D.Hawkes

Flickingeria albopurpurea Seidenf., Dansk Bot. Ark. 34: 48. 1980.

Distribution: Arunachal Pradesh.

Flickingeria bancana (J.J.Sm.) A.D.Hawkes, Orquídea (Rio de Janeiro) 27: 302. 1965. *Dendrobium bancanum* J.J.Sm.

Distribution: Arunachal Pradesh.

Flickingeria fugax (Rchb.f.) Seidenf., Dansk Bot. Ark. 34: 46. 1980. *Dendrobium fugax* Rchb.f.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling).

Flickingeria hesperis Seidenf., Nordic J. Bot. 2: 16. 1982.

Distribution: Uttarakhand.

Flickingeria macraei (Lindl.) Seidenf., Dansk Bot. Ark. 34: 39. 1980. *Dendrobium macraei* Lindl.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling).

Flickingeria ritaena (King & Pantl.) A.D.Hawkes, Orquídea (Rio de Janeiro) 27: 307. 1965. *Dendrobium ritaeanum* King & Pantl.

Distribution: Arunachal Pradesh.

Galearis Raf.

Galearis roborovskii (Maxim.) S.C.Chen, P.J.Cribb & S.W.Gale, Fl. China 25: 92. 2009. *Orchis roborovskii* Maxim.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand.

Galearis spathulata (Lindl.) P.F.Hunt, Kew Bulletin 26(1): 172. 1971. *Gymnadenia spathulata* Lindl.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Galearis tschiliensis (Schltr.) P.J.Cribb, S.W.Gale & R.M.Bateman, Ann. Bot. (Oxford) 104: 439. 2009. *Aceratorchis tschiliensis* Schltr.

Distribution: Arunachal Pradesh; 3660 m.

Galeola Lour.

Galeola cathcartii Hook.f., Fl. Brit. 6: 89. 1890.

Distribution: Sikkim.

Galeola falconeri Hook.f., Fl. Brit. 6: 88. 1890.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Galeola lindleyana (Hook.f. & Thomson) Rchb.f., Xenia Orchid. 2: 78. 1865. *Cytosia lindleyana* Hook.f. & Thomson

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling). **(Plate 319b)**

Galeola nudifolia Lour., Fl. Cochinch. 520. 1790. Distribution: Arunachal Pradesh, Sikkim.

Gastrochilus D.Don

- Gastrochilus acutifolius** (Lindl.) Kuntze, Revis. Gen. Pl. 2: 661. 1891.
Saccolabium acutifolium Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Gastrochilus affinis** (King & Pantl.) Schltr., Repert. Spec. Nov. Regni Veg. 12: 314. 1913. *Saccolabium affine* King & Pantl.
Distribution: Arunachal Pradesh, Sikkim.
- Gastrochilus arunachalensis** A.N.Rao, J. Econ. Taxon. Bot. 16: 723. 1992.
Distribution: Arunachal Pradesh.
- Gastrochilus calceolaris** (Buch.-Ham. ex Sm.) D.Don, Prodr. Fl. Nepal. 32. 1825. *Aerides calceolaris* Buch.-Ham. ex Sm.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Gastrochilus dasypogon** (Sm.) Kuntze, Revis. Gen. Pl. 2: 661. 1891. *Aerides dasypogon* Sm.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Gastrochilus distichus** (Lindl.) Kuntze, Revis. Gen. Pl. 2: 661. 1891.
Saccolabium distichum Lindl.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Gastrochilus garhwalensis** Z.H.Tsi, Guihaia 16: 138. 1996.
Distribution: Uttarakhand.
- Gastrochilus inconspicuus** (Hook.f.) Kuntze, Revis. Gen. Pl. 2: 661. 1891.
Saccolabium inconspicuum Hook.f.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Gastrochilus intermedius** (Griff. ex Lindl.) Kuntze, Revis. Gen. Pl. 2: 661. 1891. *Saccolabium intermedium* Griff. ex Lindl.
Distribution: Arunachal Pradesh, West Bengal (Darjeeling).
- Gastrochilus linearifolius** Z.H.Tsi & Garay, Guihaia 16: 138. 1996.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Gastrochilus obliquus** (Lindl.) Kuntze, Revis. Gen. Pl. 2: 661. 1891.
Saccolabium obliquum Lindl.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Gastrochilus obliquus** (Lindl.) Kuntze var. **suavis** (Seidenf.) Z.H.Tsi, Guihaia 16: 141. 1996. *G. suavis* Seidenf.
Distribution: Arunachal Pradesh.
- Gastrochilus pseudodistichus** (King & Pantl.) Schltr., Repert. Spec. Nov. Regni Veg. 12: 315. 1913. *Saccolabium pseudodistichum* King & Pantl.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Gastrochilus rutilans Seidenf., Opera Bot. 95: 293. 1988.

Distribution: Arunachal Pradesh.

Gastrochilus sessanicus A.N. Rao, J. Orchid Soc. 11: 1. 1997.

Distribution: Arunachal Pradesh.

Gastrochilus sonamii Lucksom, Orchid Rev. 111(1253): 278. 2003.

Distribution: Sikkim, West Bengal (Darjeeling).

Gastrodia R.Br.

Gastrodia arunachalensis S.N.Hegde & A.N.Rao, Orchid Rev. 93: 171. 1985.

Distribution: Arunachal Pradesh.

Gastrodia dyeriana King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 342. 1895.

Distribution: Sikkim, West Bengal (Darjeeling).

Gastrodia elata Blume, Mus. Bot. 2: 174. 1856.

Distribution: Sikkim.

Gastrodia falconeri D.L.Jones & M.A.Clem., Orchadian 12: 350. 1998.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Gastrodia mishmensis A.N.Rao, Harid. & S.N.Hedge, Arunachal Forest News 9: 10. 1991.

Distribution: Arunachal Pradesh.

Geodorum Andrews

Geodorum appendiculatum Griff., Calcutta J. Nat. Hist. 5: 357. 1845.

Distribution: Arunachal Pradesh.

Geodorum densiflorum (Lam.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 259. 1919. *Limodorum densiflorum* Lam.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1000 m.

Goodyera R.Br.

Goodyera biflora (Lindl.) Hook.f., Fl. Brit. 6: 114. 1890. *Georchis biflora* Lindl.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling).

Goodyera foliosa (Lindl.) Benth. ex C.B.Clarke, J. Linn. Soc., Bot. 25: 73. 1889. *Georchis foliosa* Lindl..

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Goodyera fumata Thwaites, Enum. Pl. Zeyl. 314. 1861.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Goodyera fusca (Lindl.) Hook.f., Fl. Brit. 6: 112. 1890. *G. fusca* Lindl.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Goodyera hemsleyana King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 342. 1895.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Goodyera hispida Lindl., J. Proc. Linn. Soc., Bot. 1: 183. 1857.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Goodyera procera (Wall. ex Ker Gawl.) Hook., Exot. Fl. 1: t. 39. 1823.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

(Plate 320)

Goodyera recurva Lindl., J. Proc. Linn. Soc., Bot. 1: 183. 1857.

Distribution: Arunachal Pradesh.

Goodyera repens (L.) R.Br., Hortus Kew. (ed. 2) 5: 198. 1813. *Satyrium repens* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Goodyera rubicunda (Blume) Lindl., Edwards's Bot. Reg. 25: misc. 61. 1839.

Neottia rubicunda Blume.

Distribution: Arunachal Pradesh, Sikkim.

Goodyera schlechtendaliana Rchb.f., Linnaea 22: 861. 1850.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Goodyera schlechtendaliana Rchb.f. var. **robusta** (Hook.f.) Av.Bhattacharjee & H.J.Chowdhery, Kew Bull. 67: 506. 2012. *G. robusta* Hook.f.

Distribution: Sikkim.

Goodyera viridiflora (Blume) Lindl. ex D.Dietr., Syn. Pl. 5: 165. 1852. *Neottia viridiflora* Blume

Distribution: Arunachal Pradesh, Uttarakhand.

Goodyera vittata (Lindl.) Benth. ex Hook.f., Fl. Brit. 6: 113. 1890. *Georchis vittata* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (Plate 320a)

Gymnadenia R.Br.

Gymnadenia orchidis Lindl., Gen. Sp. Orchid. Pl.: 278. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria Willd.

Habenaria acuifera Wall. ex Lindl., Gen. Sp. Orchid. Pl.: 325. 1835.

Distribution: Arunachal Pradesh.

Habenaria aitchisonii Rchb.f., Trans. Linn. Soc. London, Bot. 3: 113. 1886.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Habenaria arietina Hook.f., Fl. Brit. 6: 138. 1890.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria clavigera (Lindl.) Dandy, J. Bot. 68: 246. 1930. *Platanthera clavigera* Lindl.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria commelinifolia (Roxb.) Wall., Gen. Sp. Orchid. Pl. 325. 1835. *Orchis commelinifolia* Roxb.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria dentata (Sw.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 125. 1919. *Orchis dentata* Sw.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria digitata Lindl., Gen. Sp. Orchid. Pl. 307. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria diphylla Dalzell, Hooker's J. Bot. Kew Gard. Misc. 2: 262. 1850.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria edgeworthii Hook.f. ex Collett, Fl. Siml. 504. 1902.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria ensifolia Lindl., Gen. Sp. Orchid. Pl.: 321. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Habenaria foliosa A.Rich., Ann. Sci. Nat., Bot., ser. 2, 15: 71. 1841.

Distribution: West Bengal (Darjeeling).

Habenaria furcifera Lindl., Gen. Sp. Orchid. Pl.: 319. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria intermedia D.Don, Prodr. Fl. Nepal. 24. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Habenaria latilabris (Lindl.) Hook.f., Fl. Brit. 6: 153. 1890. *Platanthera latilabris* Lindl.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria longifolia Buch.-Ham. ex Lindl., Gen. Sp. Orchid. Pl. 334. 1835.

Distribution: Uttarakhand, West Bengal (Darjeeling).

Habenaria malleifera Hook.f., Fl. Brit. 6: 143. 1890.

Distribution: Sikkim, West Bengal (Darjeeling).

Habenaria marginata Colebr., Exot. Fl.: t. 136. 1824.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling).

Habenaria pantlingiana Kraenzl., Orchid. Gen. Sp. 1: 892. 1900.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria pectinata D.Don, Prodr. Fl. Nepal. 24. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria plantaginea Lindl., Gen. Sp. Orchid. Pl. 323. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Habenaria pubescens Lindl., Gen. Sp. Orchid. Pl.: 322. 1835.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Habenaria reniformis (D.Don) Hook.f., Fl. Brit. 6: 152. 1890. *Listera reniformis* D. Don

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Habenaria stenopetala Lindl., Gen. Sp. Orchid. Pl. 319. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Hemipilia Lindl.

Hemipilia cordifolia Lindl., Gen. Sp. Orchid. Pl. 296. 1835.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Hemipilia purpureopunctata (K.Y.Lang) X.H. Jin, Schuit. & W.T. Jin, Molec. Phylogen. Evol. 77: 50. 2014. *Habenaria purpureopunctata* K.Y. Lang.

Distribution: Arunachal Pradesh.

Herminium Guett.

Herminium kumaunensis Deva & H.B.Naithani, Orchid Fl. N.W. Himalaya: 159. 1986.

Distribution: Uttarakhand.

Herminium lanceum (Thunb. ex Sw.) Vuijk, Blumea 11(1): 228. 1961. *Ophrys lancea* Thunb. ex Sw.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Herminium longilobatum Hegde & A.N.Rao, Himalayan Pl. J. 1(2): 47. 1982.

Distribution: Arunachal Pradesh.

Herminium mackinnoni Duthie, J. Asiat. Soc. Bengal 71: 44. 1902.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling).

Herminium monorchis (L.) R.Br., Ait. Hort. Kew ed. 2(5): 191. 1813. *Ophrys monorchis* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Herminium quinquelobum King & Pantl., J. Asiat. Soc. Bengal 65(2): 130. 1896.
Distribution: Sikkim, West Bengal (Darjeeling).

Herpysma Lindl.

Herpysma longicaulis Lindl., Gen. Sp. Orchid. Pl. 506. 1840.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Hetaeria Blume

Hetaeria affinis (Griff.) Seidenf. & Ormerod, Oasis, Suppl. 2: 9. 2001. *Goodyera affinis* Griff.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Holcoglossum Schltr.

Holcoglossum himalaicum (Deb, Sengupta & Malick) Aver., Bot. Zhurn. (Moscow & Leningrad) 73: 432. 1988. *Saccolabium himalaicum* Deb, Sengupta & Malick.
Distribution: Arunachal Pradesh.

Lecanorchis Blume

Lecanorchis sikkimensis N. Pearce & P.J. Cribb, Edinburgh J. Bot. 56: 280. 1999.
Distribution: Sikkim, West Bengal (Darjeeling).

Liparis Rich.

Liparis assamica King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 36. 1898.
Distribution: Arunachal Pradesh, Sikkim.

Liparis bistrata C.S.P. Parish & Rchb.f., Trans. Linn. Soc. London 30: 155. 1874.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Liparis bootanensis Griff., Not. Pl. Asiat. 3: 278. 1851.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Liparis caespitosa (Lam.) Lindl., Bot. Reg. 11: t. 882. 1825. *Epidendrum caespitosum* Lam.
Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling).

Liparis cathcartii Hook.f., Hooker's Icon. Pl. 19: t. 1808. 1889.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Liparis chungthangensis Lucksom, Orchid Rev. 112(1255): 14. 2004.
Distribution: Sikkim.

Liparis cordifolia Hook.f., Hooker's Icon. Pl. 19: t. 1811. 1889.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Liparis deflexa Hook.f., Fl. Brit. 5: 697. 1890.
Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling).

Liparis delicatula Hook.f., Fl. Brit. 5: 705. 1890.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

- Liparis distans** C.B.Clarke, J. Linn. Soc., Bot. 25: 71. 1889.
Distribution: Arunachal Pradesh.
- Liparis dongchenii** Lucksom, n J. Forest. 23: 113. 2000.
Distribution: Sikkim, West Bengal (Darjeeling).
- Liparis elliptica** Wight, Icon. Pl. Ind. Orient. 5: t. 1735. 1851.
Distribution: Arunachal Pradesh, Sikkim.
- Liparis gamblei** Hook.f., Hooker's Icon. Pl. 19: t. 1812. 1889.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Liparis gigantea** C.L.Tso, Sunyatsenia 1: 136. 1933.
Distribution: Arunachal Pradesh.
- Liparis glossula** Rchb.f., Linnaea 41: 44. 1876.
Distribution: Sikkim, Himachal Pradesh, Uttarakhand.
- Liparis luteola** Lindl., Gen. Sp. Orchid. Pl.: 32. 1830.
Distribution: Arunachal Pradesh.
- Liparis lydiae** Lucksom, J. Bombay Nat. Hist. Soc. 89: 105. 1992.
Distribution: Sikkim.
- Liparis manni** Rchb.f., Flora 55: 275. 1872.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Liparis nervosa** (Thunb.) Lindl., Gen. Sp. Orchid. Pl. 26. 1830. *Ophrys nervosa* Thunb.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Liparis nervosa** (Thunb.) Lindl. var. **khasiana** (Hook.f.) P.K.Sarkar, J. Econ. Taxon. Bot. 5: 1008. 1984. *L. bituberculata* Lindl. var. *khasiana* Hook.f.
Distribution: West Bengal (Darjeeling).
- Liparis odorata** (Willd.) Lindl., Gen. Sp. Orchid. Pl.: 26. 1830. *Malaxis odorata* Willd.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Liparis perpusilla** Hook.f., Hooker's Icon. Pl. 19: t. 1856b. 1889.
Distribution: Sikkim, West Bengal (Darjeeling).
- Liparis petiolata** (D.Don) P.F. Hunt & Summerh., Kew Bull. 20: 52. 1966. *Acianthus petiolatus* D.Don.
Distribution: Sikkim, West Bengal (Darjeeling).
- Liparis plantaginea** Lindl., Gen. Sp. Orchid. Pl. 29. 1830.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).
- Liparis platyrachis** Hook.f., Hooker's Icon. Pl. 19: t. 1890. 1889.
Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling).
- Liparis pygmaea** King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 34. 1898.
Distribution: Sikkim.

Liparis resupinata Ridl., J. Linn. Soc., Bot. 22: 290. 1886.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Liparis rostrata Rchb.f., Linnaea 41: 44. 1876.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Liparis somae Hayata, Icon. Pl. Formosan. 4: 33. 1914.

Distribution: Sikkim, West Bengal (Darjeeling).

Liparis stricklandiana Rchb.f., Gard. Chron., n.s., 13: 232. 1880.

Distribution: Arunachal Pradesh, Sikkim.

Liparis tigerhillensis A.P.Das & Chanda, J. Econ. Taxon. Bot. 12: 403. 1988 (1989).

Distribution: West Bengal (Darjeeling).

Liparis viridiflora (Blume) Lindl., Gen. Sp. Orchid. Pl.: 31. 1830. *Malaxis viridiflora* Blume

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling).

Liparis wrayi Hook.f., Fl. Brit. 6: 181. 1890.

Distribution: Arunachal Pradesh.

Luisia Gaudich.

Luisia brachystachys (Lindl.) Blume, Rumphia 4: 50. 1849. *Mesoclastes brachystachys* Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Luisia filiformis Hook.f., Fl. Brit. 6: 23. 1890. *L. gamblei* Hook.f., *L. grovesii* Hook.f., *L. secunda* Seidenf.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1100 m.

Luisia psyche Rchb.f., Bot. Zeitung (Berlin) 21: 98. 1863.

Distribution: Arunachal Pradesh; 400–1500 m.

Luisia trichorrhiza (Hook.) Blume, Mus. Bot. 1: 63. 1849. *Vanda trichorrhiza* Hook.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1400 m.

Luisia tristis (G.Forst.) Hook.f., Fl. Brit. 6: 25. 1890. *Epidendrum triste* G. Forst.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1000 m.

Micropera Lindl.

Micropera mannii (Hook.f.) Tang & F.T.Wang, Acta Phytotax. Sin. 1: 94. 1951. *Sarcochilus mannii* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1200 m.

Micropera obtusa (Lindl.) Tang & F.T.Wang, Acta Phytotax. Sin. 1: 94. 1951. *Camarotis obtusa* Lindl., *Sarcochilus obtusus* (Lindl.) Benth. ex Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 400–1000 m.

Micropera pallida (Roxb.) Lindl., Edwards's Bot. Reg. 18: t. 1522. 1832. *Aerides pallida* Roxb.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 800–1200 m.

Micropera rostrata (Roxb.) N.P.Balacr., J. Bombay Nat. Hist. Soc. 67: 66. 1970. *Aerides rostrata* Roxb.

Distribution: Arunachal Pradesh; 700–1200 m.

Myrmechis (Lindl.) Blume

Myrmechis bakhimensis D.Maity, N.Pradhan & G.Maiti, Acta Phytotax. Sin. 45(3): 321. 2007.

Distribution: Sikkim; 3400 m.

Myrmechis pumila (Hook.f.) Tang & F.T.Wang, Acta Phytotax. Sin. 1(1): 69. 1951. *Odontochilus pumilus* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–3500 m.

Neogyna Rchb.f.

Neogyna gardneriana (Lindl.) Rchb.f., Bot. Zeitung (Berlin) 10: 931. 1852. *Coelogyne gardneriana* Lindl.

Distribution: Arunachal Pradesh; 600–2000 m.

Neottia Guett.

Neottia acuminata Schltr., Acta Horti Gothob. 1: 141. 1924. *Aphyllorchis parviflora* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 2000–3600 m.

Neottia alternifolia (King & Pantl.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 117. 1995. *Listera alternifolia* King & Pantl.

Distribution: Sikkim; 3000–4000 m.

Neottia brevicaulis (King & Pantl.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 117. 1995. *Listera brevicaulis* King & Pantl.

Distribution: Sikkim; 2600–3000 m.

Neottia chandrae Raskoti, J.J.Wood & Ale, Nordic J. Bot. 30: 187. 2012.

Distribution: Uttarakhand; 3000–3200 m. **(Plate 318b)**

Neottia confusa Bhaumik, Edinburgh J. Bot. 69: 381. 2012.

Distribution: Arunachal Pradesh; 3200–3800 m.

Neottia dentata (King & Pantl.) Szlach., Fragm. Flor. Geobot. Suppl. 3: 117. 1995. *Listera dentata* King & Pantl.

Distribution: Sikkim; 3000–4200 m.

Neottia dihangensis Bhaumik, Edinburgh J. Bot. 69: 379. 2012.

Distribution: Arunachal Pradesh; 3600 m.

Neottia divaricata (Panigrahi & P. Taylor) Szlach., Fragm. Florist. Geobot., Suppl. 3: 117. 1995. *Listera divaricata* Panigrahi & P. Taylor

Distribution: Arunachal Pradesh; 3000–3500 m.

Neottia inayatii (Duthie) Schltr., Bot. Jahrb. Syst. 45: 387. 1911. *Listera inayatii* Duthie

Distribution: Himachal Pradesh, Jammu & Kashmir; 3000 m.

Neottia karoana Szlach., Fragm. Florist. Geobot., Suppl. 3: 117. 1995. *Listera micrantha* Lindl.

Distribution: Sikkim; 2800–3100 m.

Neottia listeroides Lindl., Ill. Bot. Himal. Mts.1: 368. 1839.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2000–3500 m. **(Plate 320b)**

Neottia longicaulis (King & Pantl.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 117. 1995. *Listera longicaulis* King & Pantl.

Distribution: Sikkim, Uttarakhand; 2000–3500 m.

Neottia mackinnonii Deva & H.B.Naithani, Orchid Fl. N.W. Himalaya: 75. 1986.

Distribution: Uttarakhand; 800–1500 m.

Neottia microglottis (Duthie) Schltr., Bot. Jahrb. 45: 387. 1911.

Distribution: Uttarakhand; 2000–2400 m.

Neottia nandadeviensis (Hajra) Szlach., Fragm. Florist. Geobot., Suppl. 3: 118. 1995. *Listera nandadeviensis* Hajra

Distribution: Uttarakhand; 3000–3500 m.

Neottia ovata (L.) Bluff & Fingerh., Comp. Fl. German., ed. 2, 2: 435. 1838. *Ophrys ovata* L.

Distribution: Jammu & Kashmir, Sikkim,; 2100–3000 m.

Neottia pantlingii (W.W.Sm.) Tang & Wang, Acta Phytotax. Sin. 1 (1–2): 66. 1951. *Aphyllorchis pantlingii* W.W.Sm.

Distribution: Sikkim; 3000–3700 m.

Neottia pinetorum (Lindl.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 118. 1995. *Listera pinetorum* Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–3500 m.

Neottia tenuis (Lindl.) Szlach., Fragm. Florist. Geobot., Suppl. 3: 119. 1995. *Listera tenuis* Lindl.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 3000–4800 m.

Neottianthe (Rchb.) Schltr.

Neottianthe cucullata (L.) Schltr. Repert. Spec. Nov. Regni Veg. 16(23–25): 292. 1919. *Orchis cucullata* L.

Distribution: Uttarakhand.

Neottianthe secundiflora (Hook. f.) Schltr., Repert. Spec. Nov. Regni Veg. 16(23–25): 291. 1919. *Habenaria secundiflora* Hook. f.

Distribution: Uttarakhand.

Nephelaphyllum Blume

Nephelaphyllum cordifolium (Lindl.) Blume, Fl. Javae Nov. Ser. 1: t. 61. 3. 1858.
Cytheris cordifolia Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1500 m.

Nephelaphyllum sikkimensis (Hook.f.) Karth., S.Karthikeyan & al., Fl. Ind. Enum. Monocot.: 154. 1989. *N. pulchrum* Blume var. *sikkimensis* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–2000 m.

Nervilia Comm. ex Gaudich.

Nervilia concolor (Blume) Schltr., Bot. Jahrb. Syst. 45: 404. 1911. *Cordyla concolor* Blume

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–2000 m.

Nervilia crociformis (Zoll. & Moritzi) Seidenf., Dansk. Bot. Ark. 32(2): 151. 1978.
Bolborchis crociformis Zoll. & Moritzi.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 300–1500 m.

Nervilia falcata (King & Pantl.) Schltr., Bot. Jahrb. 45: 402. 1911. *Pogonia falcata* King & Pantl.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–800 m.

Nervilia gammieana (Hook.f.) Pfitzer, Nat. Pflanzenfam. 2 (6): 56. 1888. *Pogonia gammieana* Hook.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1600 m.

Nervilia gleadowii A.N.Rao, Forest. 118: 846. 1992.

Distribution: Uttarakhand; 1000m.

Nervilia hookeriana (King & Pantl.) Schltr., Bot. Jahrb. Syst. 45: 405. 1911.
Pogonia hookeriana King & Pantl.

Distribution: Sikkim; 700–900 m.

Nervilia infundibulifolia Blatt. & McCann, J. Bombay Nat. Hist. Soc. 35: 725. 1932.

Distribution: Arunachal Pradesh, Uttarakhand; 500–1000 m.

Nervilia juliana (Roxb.) Schltr., Bot. Jahrb. Syst. 45: 402. 1911. *Epipactis juliana* Roxb.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 200–500 m.

Nervilia mackinnonii (Duthie) Schltr., Bot. Jahrb. Syst. 45: 402. 1911. *Pogonia mackinnonii* Duthie

Distribution: Uttarakhand; 800–2000m.

Nervilia macroglossa (Hook.f.) Schltr., Bot. Jahrb. Syst. 45: 402. 1911. *Pogonia macroglossa* Hook.f.

Distribution: Sikkim, West Bengal (Darjeeling); 600–1800 m.

Nervilia pangteyana Jalal, Kumar & G.S.Rawat, *Nordic J. Bot.* 30: 407. 2012.

Distribution: Uttarakhand; 800 m.

Nervilia plicata (Andrews) Schltr., *Bot. Jahrb.* 45: 403. 1911. *Arethusa plicata*

Andrews

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1000 m.

Oberonia Lindl.

Oberonia acaulis Griff., *Itin. Pl. Khasyah Mts.* 76. 1848 & *Not. Pl. Asiat.* 3: 275. 1851.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1600 m.

Oberonia angustifolia Lindl., *Fol. Orchid. Oberonia* 5. 1859.

Distribution: West Bengal (Darjeeling); upto 2000 m.

Oberonia anthropophora Wall. ex Lindl., *Gen. Sp. Orchid. Pl.*: 60. 1830.

Distribution: Arunachal Pradesh; 400–1100 m.

Oberonia arunachalensis A.N.Rao, *Rheedea* 7: 130. 1997.

Distribution: Arunachal Pradesh; 600 m.

Oberonia bopannae Chowlu & Kumar, *Phytotaxa* 316 (3): 285. 2017.

Distribution: Arunachal Pradesh; 150 m.

Oberonia brachystachys Lindl., *Sert. Orchid. t. 8 B.* 1838.

Distribution: Sikkim, West Bengal (Darjeeling); 300–600 m.

Oberonia caulescens Lindl., *Gen. Sp. Orchid. Pl.*: 15. 1830.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–2500 m.

Oberonia cavaleriei Finet, *Bull. Soc. Bot. France* 55: 334. 1908.

Distribution: Uttarakhand; 1200–1500 m.

Oberonia emarginata King & Pantl., *Ann. Roy. Bot. Gard. (Calcutta)* 8: 6. 1898.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1600–2000 m.

Oberonia ensiformis (J.E.Sm.) Lindl., *Fol. Orchid. Oberonia*: 4. 1859. *Malaxis*

ensiformis J.E.Sm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1400–1700 m.

Oberonia falcata King & Pantl., *J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist.* 64: 329. 1895.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1300–2500 m.

Oberonia falconeri Hook.f., *Hooker's Icon. Pl.* 18: t. 1780. 1888.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 700–2500 m.

Oberonia gammiei King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 578. 1897.

Distribution: West Bengal (Darjeeling); 500–900 m.

Oberonia griffithiana Lindl., Sert. Orchid.: t. 8B. 1838.

Distribution: Uttarakhand; 1200–1600 m.

Oberonia helferi Hook.f., Hooker's Icon. Pl.: t. 1785A. 1888.

Distribution: Arunachal Pradesh; 500–700 m.

Oberonia jenkinsiana Griff. ex Lindl., Fol. Orchid. Oberonia: 4. 1859.

Distribution: Arunachal Pradesh, Sikkim; 1000–2500 m.

Oberonia jhae Chowlu & Rab., Bangladesh J. Pl. Taxon. 24(1): 49. 2017.

Distribution: Arunachal Pradesh; 650 m.

Oberonia kamlangensis A.N.Rao, J. Econ. Taxon. Bot. 24: 267. 2000.

Distribution: Arunachal Pradesh; 150 m.

Oberonia katakiana A.N.Rao, J. Econ. Taxon. Bot. 20: 711. 1996.

Distribution: Arunachal Pradesh; 200 m.

Oberonia kingii Lucksom, Orchid Rev. 110: 346. 2002.

Distribution: Sikkim; 1300–1500 m.

Oberonia lobulata King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 331. 1895.

Distribution: Arunachal Pradesh, Sikkim; 300 m.

Oberonia maxima C.S.P. Parish ex Hook.f., Fl. Brit. 5: 677. 1888.

Distribution: Arunachal Pradesh; 700–1500 m.

Oberonia mucronata (D.Don) Ormerod & Seidenf., Contr. Orchid Fl. Thailand 13: 20. 1997. *Stelis mucronata* D.Don

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1400 m.

Oberonia obcordata Lindl., Fol. Orchid. Oberonia: 7. 1859.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1300–2500 m.

Oberonia pachyphylla King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 5. 1898.

Distribution: Sikkim; upto 400 m.

Oberonia pachyrachis Rchb.f. ex Hook.f., Fl. Brit. 6: 681. 1894.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Oberonia prainiana King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 64: 331. 1895.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Oberonia pumilio Rchb.f., Bonplandia 5: 58. 1857.

Distribution: Arunachal Pradesh; 200–300 m.

Oberonia pyrulifera Lindl., Fol. Orchid. Oberonia: 3. 1859.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 800–2500 m.

Oberonia recurva Lindl., Edwards's Bot. Reg. 25: misc. 14. 1839.

Distribution: Sikkim, West Bengal (Darjeeling); 900–2000 m.

Oberonia rufilabris Lindl., Sert. Orchid.: t. 8A. 1838.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–500 m.

Oberonia sulcata J. Joseph & Sud. Chowdhury, J. Bombay Nat. Hist. Soc. 63: 54. 1966.

Distribution: Arunachal Pradesh; 2000–2700 m.

Odontochilus Blume

Odontochilus clarkei Hook.f., Fl. Brit. 6: 100. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–1800 m.

Odontochilus crispus (Lindl.) Hook.f., Fl. Brit. 6: 99. 1890. *Anoectochilus crispus* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–1800 m.

Odontochilus elwesii C.B. Clarke ex Hook.f., Fl. Brit. 6: 100. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1500 m.
(Plate 322)

Odontochilus grandiflorus (Lindl.) Hook.f., Fl. Brit. 6: 100. 1890. *Anoectochilus grandiflorus* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1200 m.

Odontochilus lanceolatus (Lindl.) Blume, Coll. Orchid.: 80. 1859. *Anoectochilus lanceolatus* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–2000 m.

Odontochilus tortus King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 65: 125. 1896.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 400–1300 m.

Oreorchis Lindl.

Oreorchis foliosa (Lindl.) Lindl., J. Proc. Linn. Soc., Bot. 3: 27. 1858. *Corallorhiza foliosa* Lindl.

Distribution: Sikkim, Himachal Pradesh, Uttarakhand; 2500–4500 m.

Oreorchis foliosa (Lindl.) Lindl. var. **indica** (Lindl.) N. Pearce & P.J.Cribb., J. Orchid Soc. 10: 5. 1996. *Corallorhiza indica* Lindl.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2700–3800 m. (Plate 357c)

Oreorchis micrantha Lindl., J. Proc. Linn. Soc., Bot. 3: 27. 1858.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2300–3400 m.

Oreorchis patens (Lindl.) Lindl., J. Proc. Linn. Soc., Bot. 3: 27. 1858. *Corallorhiza patens* Lindl.

Distribution: Uttarakhand; 2000–3000 m.

Ornithochilus Wall. ex Lindl.

Ornithochilus difformis (Wall. ex Lindl.) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 277. 1919. *Aerides difforme* Wall. ex Lindl.

Distribution: Uttarakhand.

Otochilus Lindl.

Otochilus albus Lindl., Gen. Sp. Orchid. Pl. 35. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Otochilus fuscus Lindl., Gen. Sp. Orchid. Pl. 35. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–2100 m.

Otochilus lancilabius Seidenf., Opera Bot. 89: 94. 1986.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–2500 m.

Otochilus porrectus Lindl., Gen. Sp. Orchid. Pl.: 36. 1830.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1000–2000 m.

Pachystoma Blume

Pachystoma pubescens Blume, Bijdr. Fl. Ned. Ind.: 376, t.3. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–2000 m.

Panisea (Lindl.) Lindl.

Panisea demissa (D.Don) Pfitzer, Pflanzenr., IV, 50(32): 141. 1907. *Dendrobium demissum* D.Don

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2400 m.

Panisea tricallosa Rolfe, Bull. Misc. Inform. Kew 1901: 148. 1901.

Distribution: Arunachal Pradesh; 500–2100 m.

Panisea uniflora (Lindl.) Lindl., Fol. Orchid. Panisea: 2. 1854. *Coelogyne uniflora* Lindl.

Distribution: Sikkim, West Bengal (Darjeeling); 1000–2200 m.

Paphiopedilum Pfitzer

Paphiopedilum fairrieianum (Lindl.) Stein, Orchid. Buch: 467. 1892. *Cypripedium fairrieianum* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2000 m.

Paphiopedilum hirsutissimum (Lindl. ex Hook.) Stein, Orchid. Buch: 470. 1892. *Cypripedium hirsutissimum* Lindl. ex Hook.

Distribution: West Bengal (Darjeeling); 1000–1500 m. **(Plate 323)**

Paphiopedilum insigne (Wall. ex Lindl.) Pfitzer, Jahrb. Wiss. Bot. 19: 159. 1888. *Cypripedium insigne* Wall. ex Lindl.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1200–1500 m.

(Plate 324)

Paphiopedilum venustum (Wall. ex Sims) Pfitzer, *Jahrb. Wiss. Bot.* 19: 165. 1888. *Cypripedium venustum* Wall. ex Sims

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–2000 m.

Paphiopedilum wardii Summerh., *Gard. Chron.*, ser. 3, 92: 446. 1932.

Distribution: Arunachal Pradesh; 1500–2000 m.

Papilionanthe Schltr.

Papilionanthe subulata (Willd.) Garay, *Bot. Mus. Leafl.* 23: 372. 1974. *Limodorum subulatum* Willd.

Distribution: Arunachal Pradesh; 900–1800 m.

Papilionanthe teres (Roxb.) Schltr., *Orchis* 9: 78. 1915.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1500 m.
(Plate 325a)

Papilionanthe uniflora (Lindl.) Garay, *Bot. Mus. Leafl.* 23: 372. 1974. *Mesoclastes uniflora* Lindl.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1500–2100 m.

Papilionanthe vandarum (Rchb.f.) Garay, *Bot. Mus. Leafl.* 23: 372. 1974. *Aerides vandarum* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim; 1200–1600 m.

Pecteilis Raf.

Pecteilis gigantea (Sm.) Raf., *Fl. Tellur.* 2: 38. 1837. *Orchis gigantea* Sm.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 500–2000 m.

Pecteilis susannae (L.) Rafin., *Fl. Tellur.* 2: 38. 1836. *Orchis susannae* L.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1600 m.

Pecteilis triflora (D.Don) Tang & F.T.Wang, *Acta Phytotax. Sin.* 1: 62. 1951. *Habenaria triflora* D.Don

Distribution: Uttarakhand; 1000–1600 m.

Pelatantheria Ridl.

Pelatantheria insectifera (Rchb.f.) Ridl., *J. Linn. Soc., Bot.* 32: 373. 1896. *Sarcanthus insectifer* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 200–1000 m.

Pennilabium J.J.Sm.

Pennilabium struthio Carr, *Gard. Bull. Straits Settlements*. 5: 151. 1930.

Distribution: Arunachal Pradesh; upto 500 m.

Peristylus Blume

Peristylus affinis (D.Don) Seidenf., *Dansk Bot. Ark.* 31: 48. 1977. *Habenaria affinis* D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–2500 m.

Peristylus biermannianus (King & Pantl.) X.H.Jin, Schuit. & W.T.Jin, Molec. Phylogen. Evol. 77: 51. 2014. *Habenaria biermanniana* King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling); 2000–3200 m.

Peristylus constrictus (Lindl.) Lindl., Gen. Sp. Orchid. Pl.: 300. 1835. *Herminium constrictum* Lindl.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–2300 m.

Peristylus densus (Lindl.) Santapau & Kapadia, J. Bombay Nat. Hist. Soc. 57: 128. 1960. *Coeloglossum densum* Lindl.

Distribution: Arunachal Pradesh, Sikkim; 1500–2000 m.

Peristylus duthiei (Hook.f.) Deva & H.B.Naithani, Orchid Fl. N.W. Himalaya: 181. 1986. *Herminium duthiei* Hook.f.

Distribution: Uttarakhand; 2400–4000 m.

Peristylus elisabethae (Duthie) R.K.Gupta, Fl. Nainital. 351. 1968. *Habenaria elisabethae* Duthie

Distribution: Himachal Pradesh, Sikkim, Uttarakhand West Bengal (Darjeeling); 1600–4000 m.

Peristylus fallax Lindl., Gen. Sp. Orchid. Pl.: 298. 1835.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2000–4500 m.

Peristylus goodyeroides (D.Don) Lindl., Gen. Sp. Orchid. Pl. 299. 1835. *Habenaria goodyeroides* D.Don

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–3000 m.

Peristylus hamiltonianus (Lindl.) Lindl., Gen. Sp. Orchid. Pl.: 299. 1835. *Herminium hamiltonianum* Lindl.

Distribution: Sikkim, West Bengal (Darjeeling); 1500–2000 m.

Peristylus lacertifer (Lindl.) J.J.Sm., Bull. Jard. Bot. Buitenzorg, ser. 3(9): 23. 1927. *Coeloglossum lacertiferum* Lindl.

Distribution: Sikkim, West Bengal (Darjeeling); 200–1200 m.

Peristylus lawii Wight, Icon. Pl. Ind. Orient. 5: t. 1698. 1851.

Distribution: Uttarakhand; 150–1200 m.

Peristylus macrophylla (D.Don) Lawkush, V. Kumar & N.S. Bankoti, Ind. J. Forest. 36(3): 387. 2013. *Neottia macrophylla* D.Don

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 1800–4500 m.

Peristylus orbicularis (Hook.f.) D.K.Agrawala, H.J.Chowdhery & S.Choudhury, Kew Bull. 65: 106. 2010. *Herminium orbiculare* Hook.f.

Distribution: Sikkim, West Bengal (Darjeeling); 3000–4000 m.

Peristylus parishii Rchb.f., Trans. Linn. Soc. London 30: 139. 1874.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1300 m.

Peristylus plantagineus (Lindl.) Lindl., Gen. Sp. Orchid. Pl. 300. 1835. *Herminium plantagineum* Lindl.

Distribution: West Bengal (Darjeeling); 100–1200 m.

Peristylus prainii (Hook.f.) Kraenzl., Orchid. Gen. Sp.: 514. 1898. *Habenaria prainii* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Peristylus pseudophrys (King & Pantl.) Kraenzl., Orchid. Gen. Sp. 1: 925. 1901. *Habenaria pseudophrys* King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling); 1600–1800 m.

Peristylus richardianus Wight, Icon. Pl. Ind. Orient. t. 1697. 1852.

Distribution: Arunachal Pradesh; 1500–2000 m.

Peristylus superanthus J.J.Wood, Kew Bull. 41(4): 811. 1986.

Distribution: Sikkim, West Bengal (Darjeeling); 3000–3600 m.

Peristylus tipuliferus (Parish & Rchb.f.) S.M.Mukerjee, Notes Roy. Bot. Gard. Edinburgh 21: 153. 1953. *Habenaria tipulifera* Parish & Rchb.f.

Distribution: Sikkim, West Bengal (Darjeeling); 1000–2000 m.

Phaius Lour.

Phaius flavus (Blume) Lindl., Gen. Sp. Orchid. Pl.: 128. 1831. *Limodorum flavum* Blume

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1800 m.

Phaius luridus Thwaites, Enum. Pl. Zeyl. 300. 1861.

Distribution: Arunachal Pradesh; upto 500m.

Phaius mishmensis (Lindl. & Paxton) Rchb.f., Bonplandia 5: 43. 1857. *Limatodes mishmensis* Lindl. & Paxton

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1400 m
(Plate 325b)

Phaius nanus Hook.f., Fl. Brit. 6: 192. 1890.

Distribution: West Bengal (Darjeeling); 200–800 m.

Phaius tankervilleae (Banks ex L'Her.) Blume, Mus. Bot. 2: 177. 1856. *Limodorum tancarvilleae* Banks ex L'Her.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 700–1800 m.

Phalaenopsis Blume

Phalaenopsis braceana (Hook.f.) Christenson, Selbyana 9: 169. 1986. *Daritis braceana* Hook.f.

Distribution: Arunachal Pradesh; 1000–2000 m.

Phalaenopsis deliciosa Rchb.f., Bonplandia 2: 93. 1854. subsp. **deliciosa**

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 700–1600 m.

Phalaenopsis deliciosa Rchb.f. subsp. **hookeriana** (O.Gruss & Roellke) Christenson, *Phalaenopsis* 223. 2001.

Distribution: Sikkim, West Bengal (Darjeeling).

Phalaenopsis difformis (Wall. ex Lindl.) Kocyan & Schuit., *Phytotaxa* 161: 67. 2014. *Aerides difformis* Wall. ex Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–2000 m.

Phalaenopsis hygrochila J.M.H.Shaw, *Orchid Rev.* 123 (1309, Suppl.): 23. 2015.

Distribution: Arunachal Pradesh; 700–1300 m.

Phalaenopsis lobbii (Rchb.f.) H.R.Sweet, *Gen. Phalaenopsis*: 53. 1980.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1200 m.

Phalaenopsis manni Rchb.f., *Gard. Chron.* 1871: 902. 1871.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–1400 m.

Phalaenopsis parishii Rchb.f., *Bot. Zeitung* (Berlin) 23: 146. 1865.

Distribution: Arunachal Pradesh; upto 500 m.

Phalaenopsis taenialis (Lindl.) Christenson & Pradhan, *n Orchid J.* 1: 154. 1985.

Aerides taenialis Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2000 m.

Pholidota Lindl.

Pholidota articulata Lindl., *Gen. Sp. Orchid. Pl.* 38. 1830.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 700–1800 m.

Pholidota convallariae (C.S.P.Parish & Rchb.f.) Hook.f., *Hooker's Icon. Pl.* 19: t. 1880. 1889. *Coelogyne convallariae* C.S.P.Parish & Rchb.f.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1000–1500 m.

Pholidota imbricata Hook., *Exot. Fl.* 2: t. 138. 1825.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2200 m.

Pholidota katakiana Phukan, *Orchid Rev.* 104: 238. 1996.

Distribution: Arunachal Pradesh; 1700m.

Pholidota pallida Lindl., *Edwards's Bot. Reg.* 21: t. 1777. 1835.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–2500 m.

Pholidota protracta Hook.f., *Hooker's Icon. Pl.* 19: t. 1877. 1889.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2500 m.

Pholidota pygmaea H.J.Chowdhery & G.D.Pal, *Nordic J. Bot.* 15: 411. 1995 '1996'.

Distribution: Arunachal Pradesh; 300–600 m.

Pholidota recurva Lindl., *Gen. Sp. Orchid. Pl.*: 37. 1830.

Distribution: Sikkim, West Bengal (Darjeeling); 700–1800 m.

Pholidota rubra Lindl., Gen. Sp. Orchid. Pl.: 37. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–2000 m.

Pholidota undulata Wall. ex Lindl., Gen. Sp. Orchid. Pl. 37. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Pholidota wattii King & Pantl., J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 66: 590. 1897.

Distribution: Arunachal Pradesh; 500–1000 m.

Phreatia Lindl.

Phreatia elegans Lindl., Gen. Sp. Orchid. Pl. 63. 1830.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2200 m.

Phreatia matthewsii Rchb.f., Otia Bot. Hamburg. 55 1878.

Distribution: Uttarakhand.

Platanthera Rich.

Platanthera bakeriana (King & Pantl.) Kraenzl., Orchid. Gen. Sp. 1: 632. 1899.

Habenaria bakeriana King & Pantl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2500–3300 m.

Platanthera bhutanica K. Inoue, J. Jap. Bot. 61(7): 193. 1986.

Distribution: Sikkim, West Bengal (Darjeeling); 1900–3900 m.

Platanthera concinna (Hook.f.) Kraenzl., Orchid. Gen. Sp. 1: 621. 1899. *Habenaria concinna* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1500 m.

Platanthera dulongensis X.H.Jin & Efimov, Nordic J. Bot. 30: 294. 2012.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 2100–2800 m.

Platanthera handel-mazzettii K. Inoue, J. Jap. Bot. 61: 195. 1986.

Distribution: Sikkim; 2500–3700 m.

Platanthera japonica (Thunb.) Lindl., Gen. Sp. Orchid. Pl.: 290. 1835. *Orchis japonica* Thunb.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 2500–3200 m.

Platanthera leptocaulon (Hook.f.) Soo, Ann. Hist. Nat. Mus. Natl. Hung. 26: 360.

1929. *Habenaria leptocaulon* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2700–3500 m.

Platanthera nematocaulon (Hook.f.) Kranzl., Orchid. Gen. Sp. 1: 942. 1901.

Habenaria nematocaulon Hook.f.

Distribution: Sikkim, West Bengal (Darjeeling); 2700–3660 m.

Platanthera pachycaulon (Hook.f.) Soo, Ann. Hist. Nat. Mus. Natl. Hung. 26:

364. 1929. *Habenaria pachycaulon* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2700–4300 m. **(Plate 326a)**

Platanthera sikkimensis (Hook.f.) Kraenzl., *Orchid. Gen. Sp.* 1: 621. 1899.
Habenaria sikkimensis Hook.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1900–3600 m.

Platanthera stenantha (Hook.f.) Soo, *Ann. Hist. Nat. Mus. Natl. Hung.* 26: 363. 1929. *Habenaria stenantha* Hook.f.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–3700 m.

Platanthera urceolata (C.B. Clarke) R.M. Bateman, *Ann. Bot. (Oxford)* 104: 439. 2009. *Habenaria urceolata* C.B. Clarke

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2500–4200 m.

Pleione D. Don

Pleione arunachalensis Hareesh, Kumar & M. Sabu, *Phytotaxa* 291 (4): 294. 2017.

Distribution: Arunachal Pradesh; 2100 m.

Pleione grandiflora (Rolfe) Rolfe, *Orchid Rev.* 11: 291. 1903. *Coelogyne grandiflora* Rolfe

Distribution: Uttarakhand; 2600–2900 m.

Pleione hookeriana (Lindl.) Rollisson, *Nursery Cat. (Rollisson)* 1875–1876: 39. 1875. *Coelogyne hookeriana* Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2200–3500 m.

Pleione humilis (Sm.) D. Don, *Prodr. Fl. Nepal.*: 37. 1825. *Epidendrum humile* Sm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2100–3000 m.

Pleione maculata (Lindl.) Lindl. & Paxton, *Paxton's Fl. Gard.* 2: 5. 1851. *Coelogyne maculata* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1600 m.

Pleione praecox (Sm.) D. Don, *Prodr. Fl. Nepal.* 37. 1825. *Epidendrum praecox* Sm.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–3000 m. **(Plate 327)**

Pleione saxicola Tang & F.T. Wang ex S.C. Chen, *Acta Phytotax. Sin.* 25: 473. 1987.

Distribution: Arunachal Pradesh; 2400–2500 m.

Pleione scopulorum W.W. Sm., *Notes Roy. Bot. Gard. Edinburgh* 113: 218. 1921.

Distribution: Arunachal Pradesh; 2500–4000 m.

Podochilus Blume

Podochilus cultratus Lindl., *Gen Sp. Orchid. Pl.* 234. 1833.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 400–600 m.

(Plate 326b)

Podochilus khasianus Hook.f., Fl. Brit. 6: 81. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1600 m.

Pogonia Juss.

Pogonia japonica Rchb.f., Linnaea 25: 228. 1852.

Distribution: Arunachal Pradesh; 1000–2000 m.

Polystachya Hook.

Polystachya concreta (Jacq.) Garay & H.R.Sweet, Orquideologia 9: 206. 1974.
Epidendrum concretum Jacq.

Distribution: Arunachal Pradesh; 600–1500 m.

Pomatocalpa Breda

Pomatocalpa armigerum (King & Pantl.) Tang & F.T.Wang, Acta Phytotax. Sin. 1: 98. 1951. *Cleisostoma armigera* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1000 m.

Pomatocalpa bambusarum (King & Pantl.) Garay, Bot. Mus. Leafl. 23: 190. 1972.
Sarcanthus bambusarum King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling); upto 800 m.

Pomatocalpa spicatum Breda, Gen. Sp. Orchid. Asclep. 3: t. 15. 1829.

Distribution: Arunachal Pradesh, Sikkim; upto 1500 m.

Pomatocalpa undulatum (Lindl.) J.J.Sm., Natuurk. Tijdschr. Ned. Indie 72: 107. 1912. *Saccolabium undulatum* Lindl.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 300–1000 m.

Ponerorchis Rchb.f.

Ponerorchis chrysea (W.W.Sm.) Soo, Acta Bot. Acad. Sci. Hung. 12: 353. 1966.
Habenaria chrysea W.W. Sm.

Distribution: Arunachal Pradesh, Sikkim; 3400–4200 m.

Ponerorchis chusua (D.Don) Soo, Acta Bot. Acad. Sci. Hung. 12: 352. 1966. *Orchis chusua* D.Don

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2500–4500 m. **(Plate 328)**

Ponerorchis cucullata (L.) X.H.Jin, Schuit. & W.T. Jin, Molec. Phylogen. Evol. 77: 51. 2014.

Distribution: Sikkim; 2000–4000 m.

Ponerorchis cucullata (L.) X.H.Jin, Schuit. & W.T.Jin var. **calcicola** (W.W.Sm.) X.H.Jin, Schuit. & W.T.Jin, Molec. Phylogen. Evol. 77: 51. 2014. *Gymnadenia calcicola* W.W.Sm.

Distribution: Sikkim, Uttarakhand; 3000–4500 m.

Ponerorchis renzii Deva & H.B.Naithani, Orchid Fl. N.W. Himalaya: 199. 1986.

Distribution: Uttarakhand; 3300–4000 m.

Ponerorchis secundiflora (Kraenzl.) X.H.Jin, Schuit. & W.T.Jin, Molec. Phylogen. Evol. 77: 51. 2014. *Peristylus secundiflorus* Kraenzl.

Distribution: Sikkim, Uttarakhand; 3000–3800 m.

Porpax Lindl.

Porpax elwesii (Rchb.f.) Rolfe, Orchid Rev. 16: 8. 1908. *Eria elwesii* Rchb.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1800 m.

Porpax fibuliformis (King & Pantl.) King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 114. 1898. *Eria fibuliformis* King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1500 m.

Porpax gigantea Deori, Bull. Bot. Surv. 17: 174. 1975 (publ. 1978).

Distribution: Arunachal Pradesh; 900–1200 m.

Pteroceras Hasselt ex Hassk.

Pteroceras teres (Blume) Holttum, Kew Bull. 14: 271. 1960. *Dendrocolla teres* Blume

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1500 m.

Renanthera Lour.

Renanthera imschootiana Rolfe, Bull. Misc. Inform. Kew 1891: 200. 1891.

Distribution: Arunachal Pradesh; 500–1500 m. **(Plate 329a)**

Rhomboda Lindl.

Rhomboda arunachalensis A.N.Rao, J. Econ. Taxon. Bot. 22: 426. 1998.

Distribution: Arunachal Pradesh; 1100 m.

Rhomboda lanceolata (Lindl.) Ormerod, Orchadian 11: 329. 1995. *Dossinia lanceolata* Lindl.

Distribution: Sikkim, West Bengal (Darjeeling); upto 1500 m.

Rhomboda longifolia Lindl., J. Proc. Linn. Soc., Bot. 1: 181. 1857.

Distribution: Sikkim.

Rhomboda pulchra (King & Pantl.) Ormerod & Av.Bhattacharjee, Phytotaxa 191: 177. 2014. *Zeuxine pulchra* King & Pantl.

Distribution: Arunachal Pradesh, Sikkim; 1500–2300 m.

Rhynchostylis Blume

Rhynchostylis retusa (L.) Blume, Bijdr. Fl. Ned. Ind. 286. 1825. *Epidendrum retusum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1500 m. **(Plate 329b)**

Risleya King & Pantl.

Risleya atropurpurea King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 247. 1898.

Distribution: Sikkim; 3500–4200 m.

Robiquetia Gaudich.**Robiquetia arunachalensis** (A.N.Rao) Kocyan & Schuit., *Phytotaxa* 161: 68. 2014.*India arunachalensis* A.N.Rao

Distribution: Arunachal Pradesh; 200 m.

Robiquetia spathulata (Blume) J.J.Sm., *Natuurk. Tijdschr. Ned. Indie* 72: 114.1912. *Cleisostoma spathulatum* Blume

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1700 m.

Robiquetia succisa (Lindl.) Seidenf. & Garay, *Bot. Tidsskr.* 67: 119. 1972.*Sarcanthus succisus* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1200 m.

Saccolabiopsis J.J. Sm.**Saccolabiopsis pusilla** (Lindl.) Seidenf. & Garay, *Bot. Tidsskr.* 67: 118. 1972.*Oeceoclades pusilla* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–500 m.

Sarcoglyphis Garay**Sarcoglyphis arunachalensis** A.N.Rao, *Nordic J. Bot.* 10: 161. 1990.

Distribution: Arunachal Pradesh; 1100 m.

Satyrrium Sw.**Satyrrium nepalense** D. Don, *Prodr. Fl. Nepal.*: 26. 1825.Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–3000 m. **(Plate 329c)****Satyrrium nepalense** D.Don var. **ciliatum** (Lindl.) Hook.f., *Fl. Brit.* 6: 168. 1890.*S. ciliatum* Lindl.

Distribution: Uttarakhand, West Bengal (Darjeeling); 1800–3000 m.

Schoenorchis Reinw. ex Blume**Schoenorchis gemmata** (Lindl.) J.J. Sm., *Natuurk. Tijdschr. Ned. Indie* 72: 100.1912. *Saccolabium gemmatum* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–2000 m.

Smitinandia Holttum**Smitinandia micrantha** (Lindl.) Holttum, *Gard. Bull. Singapore* 25: 106. 1969.*Saccolabium micranthum* Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Spathoglottis Blume**Spathoglottis ixiooides** (D.Don) Lindl., *Gen. Sp. Orchid. Pl.* 120. 1831. *Cymbidium ixiooides* D.Don

Distribution: Arunachal Pradesh, Sikkim; 1500–4600 m.

(Plate 331a)

Spathoglottis plicata Blume, Bijdr. Fl. Ned. Ind. 401. 1825.

Distribution: Arunachal Pradesh; 700–2000 m.

Spathoglottis pubescens Lindl., Gen. Sp. Orchid. Pl.: 120. 1831.

Distribution: Arunachal Pradesh; 500–2000 m.

Spiranthes Rich.

Spiranthes sinensis (Pers.) Ames, Orchidaceae 2: 53. 1908. *Neottia sinensis* Pers.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–2000 m. (Plate 330)

Spiranthes spiralis Chevall. Fl. Gen. Env. Paris, ed. 2 2: 330. 1836.

Distribution: Uttarakhand.

Stereochilus Lindl.

Stereochilus hirtus Lindl., J. Proc. Linn. Soc., Bot. 3: 38. 1858.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–700 m.

Stereosandra Blume

Stereosandra javanica Blume, Mus. Bot. 2: 176. 1856.

Distribution: Arunachal Pradesh; upto 1200 m.

Stigmatodactylus Maxim. ex Makino

Stigmatodactylus paradoxus (Prain) Schltr., Repert. Spec. Nov. Regni Veg. 10: 4. 1911. *Pantlingia paradoxa* Prain

Distribution: Sikkim; upto 2000 m.

Sunipia Lindl.

Sunipia bicolor Lindl., Gen. Sp. Orchid. Pl. 179. 1833.

Distribution: Uttarakhand.

Taeniophyllum Blume

Taeniophyllum arunachalense A.N.Rao & J. Lal, Bioved 2: 225. 1991.

Distribution: Arunachal Pradesh; 50–100 m.

Taeniophyllum campanulatum Carr, Gard. Bull. Straits Settlem. 7: 68. 1932.

Distribution: Arunachal Pradesh; 200 m.

Taeniophyllum crepidiforme (King & Pantl.) King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 245. 1898. *Sarcochilus crepidiformis* King & Pantl.

Distribution: Sikkim; 300–800 m.

Taeniophyllum retrospiculatum (King & Pantl.) King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 244. 1898. *Sarcochilus retrospiculatus* King & Pantl.

Distribution: Sikkim, West Bengal (Darjeeling); 1300–2400 m.

Taeniophyllum stella Carr, Gard. Bull. Straits Settlem. 7: 69. 1932.

Distribution: Arunachal Pradesh; 200 m.

Tainia Blume

Tainia latifolia (Lindl.) Rchb.f., Bonplandia 5: 54. 1857. *Ania latifolia* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1400 m.
(Plate 331b)

Tainia megalanthum (Tang & F.T.Wang) Sushil K. Singh, Agrawala, S.S. Dash & Jalal in Sushil K. Singh & al. (eds.) Orchid. India Pict. Guide 487. 2019.
Mischobulbum megalanthum Tang & F.T.Wang

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Tainia minor Hook.f., Fl. Brit. 5: 821. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–2000 m.

Thelasis Blume

Thelasis khasiana Hook.f., Fl. Brit. 6: 87. 1890. Distribution: Arunachal Pradesh; 1000–2000 m.

Thelasis longifolia Hook.f., Fl. Brit. 6: 87. 1890.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 800–1300 m.

Thelasis pygmaea (Griff.) Lindl., J. Proc. Linn. Soc., Bot. 3: 63. 1858. *Euproboscis pygmaea* Griff.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2000 m.

Thrixspermum Lour.

Thrixspermum centipeda Lour., Fl. Cochinch.: 520. 1790.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1200 m.
(Plate 331c)

Thrixspermum musciflorum A.S. Rao & J. Joseph, Bull. Bot. Surv. 11: 204. 1969 '1971'.

Distribution: Arunachal Pradesh, Sikkim; 800–1200 m.

Thrixspermum pygmaeum (King & Pantl.) Holttum, Kew Bull. 14: 275. 1960.
Sarcochilus pygmaeus King & Pantl.

Distribution: Sikkim; 800–1200 m.

Thrixspermum saruwatarii (Hayata) Schltr., Repert. Spec. Nov. Regni Veg. Beih. 4: 275. 1919. *Sarcochilus saruwatarii* Hayata

Distribution: Arunachal Pradesh; 800–1200 m.

Thunia Rchb.f.

Thunia alba (Lindl.) Rchb.f., Bot. Zeitung (Berlin) 10: 764. 1852. *Phaius albus* Lindl.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–2000 m.

Thunia alba (Lindl.) Rchb.f. var. **bracteata** (Roxb.) N.Pearce & P.J.Cribb, Edinburgh J. Bot. 58: 116. 2001. *Limodorum bracteatum* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 600–1600 m.

Tipularia Nutt.

Tipularia cunninghamii (King & Prain) S.C. Chen, S.W.Gale & P.J. Cribb, Fl. China 25: 251. 2009. *Didickea cunninghamii* King & Prain
Distribution: Sikkim, Uttarakhand; 2700–2900 m.

Tipularia josephi Rchb.f. ex Lindl., J. Proc. Linn. Soc., Bot. 1: 174. 1857.
Distribution: Sikkim, West Bengal (Darjeeling); 2800–4000 m.

Trichoglottis Blume

Trichoglottis ramosa (Lindl.) Senghas., Orchideen Beschreib. Kult. Zücht., ed. 3, 1(21): 1315. 1988. *Saccolabium ramosum* Lindl.
Distribution: Sikkim, West Bengal (Darjeeling); upto 1000 m.

Trichotosia Blume

Trichotosia dasyphylla (C.S.P.Parish & Rchb.f.) Kraenzl., Pflanzenr., IV, 50(50): 138. 1911. *Eria dasyphylla* C.S.P.Parish & Rchb.f.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1500 m.

Trichotosia pulvinata (Lindl.) Kraenzl., Pflanzenr., IV, 50(50): 138. 1911. *Eria pulvinata* Lindl.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–2000 m.

Trichotosia velutina (Lodd. ex Lindl.) Kraenzl., Pflanzenr., IV, 50(50): 140. 1911. *Eria velutina* Lodd. ex Lindl.
Distribution: Arunachal Pradesh; 1400 m.

Tropidia Lindl.

Tropidia angulosa (Lindl.) Blume, Coll. Orchid.: 122. 1859. *Cnemidia angulosa* Lindl.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1800 m.

Tropidia curculigoides Lindl., Gen. Sp. Orchid. Pl. 497. 1840. *T. assamica* Blume
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1000 m.

Tropidia pedunculata Blume, Coll. Orchid.: 122. 1859.
Distribution: Arunachal Pradesh, Uttarakhand; 300–1000 m.

Uncifera Lindl.

Uncifera acuminata Lindl., J. Proc. Linn. Soc., Bot. 3: 40. 1858.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1500 m.

Uncifera lancifolia (King & Pantl.) Schltr., Orchideen Beschreib. Kult. Zücht. 583. 1914. *Saccolabium lancifolium* King & Pantl.
Distribution: Sikkim, West Bengal (Darjeeling); 2000–2200 m.

Uncifera obtusifolia Lindl., J. Proc. Linn. Soc., Bot. 3: 40. 1858.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 900–1400 m.

Vanda R.Br.

Vanda alpina (Lindl.) Lindl., Fol. Orchid. Vanda: 10. 1853. *Luisia alpina* Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling);
1000–1800 m.

Vanda bicolor Griff., Not. Pl. Asiat. 3: 354. 1851.
Distribution: Arunachal Pradesh; 700–2000 m.

Vanda coerulea Griff. ex Lindl., Edwards's Bot. Reg. 33: t. 30. 1847.
Distribution: Arunachal Pradesh, Sikkim; 500–1500 m.

Vanda coerulescens Griff., Not. Pl. Asiat. 3: 352. 1851.
Distribution: Arunachal Pradesh; upto 1600 m.

Vanda cristata Wall. ex Lindl., Gen. Sp. Orchid. Pl.: 216. 1833.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West
Bengal (Darjeeling); 1000–2000 m.

Vanda griffithii Lindl., Paxton's Fl. Gard. 2: 22. 1851.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling).

Vanda motesiana Choltco, Orchid Rev. 117: 148. 2009.
Distribution: Arunachal Pradesh; 1000–2000 m.

Vanda pumila Hook.f., Fl. Brit. 6: 53. 1890.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling);
800–1800 m.

Vanda tessellata (Roxb.) Hook. ex G.Don, Hort. Brit.: 372. 1830. *Epidendrum
tessellatum* Roxb.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling);
200–600 m.

Vanda testacea (Lindl.) Rchb.f., Gard. Chron., n.s., 8: 166. 1877. *Aerides testacea*
Lindl.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West
Bengal (Darjeeling); 200–2200 m.

Vandopsis Pfitzer

Vandopsis gigantea (Lindl.) Pfitzer, Prantl. (ed.), Nat. Pflanzenfam. 2(6): 210.
1889. *Vanda gigantea* Lindl.
Distribution: West Bengal (Darjeeling); upto 1500 m.

Vandopsis undulata (Lindl.) J.J.Sm., Natuurk. Tijdschr. Ned. Indie 72: 77. 1912.
Vanda undulata Lindl.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling);
1200–2000 m.

Yoania Maxim.

Yoania prainii King & Pantl., Ann. Roy. Bot. Gard. (Calcutta) 8: 175. 1898.
Distribution: Sikkim; 1400–3000 m.

Zeuxine Lindl.

Zeuxine affinis (Lindl.) Benth. ex Hook.f., Fl. Brit. 6: 108. 1890. *Etaeria affinis* Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–2000 m.

Zeuxine agyokuana Fukuy., Bot. Mag. (Tokyo) 48: 433. 1934.

Distribution: West Bengal (Darjeeling); 900–1600 m.

Zeuxine clandestina Blume, Fl. Javae: 57, t. 39. 1858.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); upto 500 m.

Zeuxine flava (Wall. ex Lindl.) Trimen, Syst. Cat. Fl. Pl. Ceylon: 90. 1885. *Hetaeria flava* Wall. ex Lindl.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1800 m.

Zeuxine glandulosa King & Pantl., Ann. Roy. Bot. Gard. Calcutta 8: 289. 1898.

Distribution: Sikkim, West Bengal (Darjeeling); upto 900 m.

Zeuxine goodyeroides Lindl., Gen. Sp. Orchid. Pl.: 486. 1840.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–2500 m.

Zeuxine gracilis (Breda) Blume, Fl. Javae: 56, t. 18. 1858. *Psychechilos gracile* Breda

Distribution: Arunachal Pradesh; 1000–1800 m.

Zeuxine grandis Seidenf., Dansk Bot. Ark. 32(2): 90. 1978.

Distribution: Sikkim, Uttarakhand; upto 1400 m.

Zeuxine lindleyana A.N.Rao, Arunachal Forest News 6: 34. 1988.

Distribution: Arunachal Pradesh, Himachal Pradesh, West Bengal (Darjeeling); 200–800 m.

Zeuxine longilabris (Lindl.) Trimen, J. Ceylon Br. Roy. Asiat. Soc. 9: 90. 1885. *Monochilus longilabris* Lindl.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 200–1500 m.

Zeuxine membranacea Lindl., Gen. Sp. Orchid. Pl.: 486. 1840.

Distribution: Himachal Pradesh; upto 200 m.

Zeuxine nervosa (Wall. ex Lindl.) Benth. ex Trimen, J. Ceylon Br. Roy. Asiat. Soc. 9: 90. 1885. *Monochilus nervosus* Wall. ex Lindl.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1800 m.

(Plate 332)

Zeuxine reflexa King & Pantl., Ann. Roy. Bot. Gard. Calcutta 8: 291, t. 388. 1898.

Distribution: Sikkim, West Bengal (Darjeeling); upto 1400 m.

Zeuxine strateumatica (L.) Schltr., Bot. Jahrb. Syst. 45: 394. 1911. *Orchis strateumatica* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1500.

PANDANACEAE

(1 genus; 5 taxa)

Pandanus Parkinson**Pandanus emarginatus** H.St.John, Bot. Mag. (Tokyo) 85: 247. 1972.

Distribution: Arunachal Pradesh.

Pandanus furcatus Roxb., Fl. Ind. 3: 744. 1832.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1000 m.

Pandanus martinianus Nadaf & Zanan, Phytotaxa 73: 2. 2012.

Distribution: Arunachal Pradesh; 294 m.

Pandanus odorifer (Forssk.) Kuntze, Revis. Gen. Pl. 2: 737. 1891. *Keura odorifera* Forssk.

Distribution: Uttarakhand.

Pandanus unguifer Hook.f., Bot. Mag. 104: t. 6347. 1878.

Distribution: Arunachal Pradesh, Sikkim.

POACEAE

(204 genera; 912 taxa)

Acrachne Wight & Arn. ex Chiov.**Acrachne racemosa** (B.Heyne ex Roth) Ohwi, Bull. Tokyo Sci. Mus. 18: 1. 1947.*Eleusine racemosa* B.Heyne ex Roth

Distribution: Himachal Pradesh, Uttarakhand.

Acroceras Stapf**Acroceras zizanioides** (Kunth) Dandy, J. Bot. 69: 54. 1931. *Panicum zizanioides* Kunth, *P. latifolium* non L.

Distribution: Arunachal Pradesh, Sikkim; 500–1200 m

Aegilops L.**Aegilops tauschii** Coss., Notes Pl. Crit. 69. 1849.

Distribution: Jammu & Kashmir.

Aegilops triuncialis L., Sp. Pl. 1051. 1753.

Distribution: Uttarakhand.

Agropogon P. Fourn.**Agropogon lutosus** (Poir.) P.Fourn., Monde Pl. 36(213): 20 1935. *Agrostis lutosus* Poir.

Distribution: Himachal Pradesh, Uttarakhand.

Agropyron Gaertn.**Agropyron canaliculatum** Nevski, Izv. Bot. Sada Akad. Nauk S.S.S.R. 30: 509. 1932.

Distribution: Himachal Pradesh.

Agropyron striatum Nees ex Steud., Syn. Pl. Glumac. 1: 346. 1854.

Distribution: Himachal Pradesh.

Agropyron thomsonii Hook.f., Fl. Brit. India 7: 370. 1896.

Distribution: Jammu & Kashmir, Uttarakhand; 3050–4500 m.

Agrostis L.

Agrostis canina L., Sp. Pl. 62. 1753.

Distribution: Himachal Pradesh.

Agrostis capillaris L., Sp. Pl. 62. 1753.

Distribution: Himachal Pradesh, West Bengal (Darjeeling); 2130–2550 m.

Agrostis filipes Hook.f., Fl. Brit. India 7: 256. 1896.

Distribution: Arunachal Pradesh, Sikkim; 1200–2000 m.

Agrostis gigantea Roth, Tent. Fl. Germ. 1: 31. 1788.

Distribution: Himachal Pradesh, Sikkim; 1200–2000 m.

Agrostis griffithiana (Hook.f.) Bor, Grass. Burma, Ceylon, India & Pakistan 387.

1960. *Calamagrostis griffithiana* Hook.f.

Distribution: Arunachal Pradesh; 3000–4000 m.

Agrostis hissarica Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada R.S.F.S.R. 4: 93. 1923.

Distribution: Jammu & Kashmir.

Agrostis hookeriana C.B. Clarke ex Hook.f., Fl. Brit. India 7: 256. 1896.

Distribution: Sikkim; 1200–2000 m.

Agrostis inaequiglumis Griseb., Nachr. Königl. Ges. Wiss. Georg. Augusts. Univ. 3: 80. 1868.

Distribution: Arunachal Pradesh, Sikkim; 3000–4500 m.

Agrostis micrantha Steud., Syn. Pl. Glumac. 1: 170. 1854.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–2000 m.

Agrostis munroana Aitch. & Hemsl., J. Linn. Soc., Bot. 19: 192. 1882.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3300–4000 m.

Agrostis musjidii Rajesw, R.R. Rao & Arti Garg, J. Indian Bot. Soc. 74: 333. 1995.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Agrostis myriantha Hook.f., Fl. Brit. India 7: 257. 1896.

Distribution: Sikkim.

Agrostis nervosa Nees ex Trin., Mçm. Acad. Imp. Sci. Saint. Pçtersbourg, Sçr. 6, Sci. Math., Seconde Pt. Sci. Nat. 6(2): 328. 1845.

Distribution: Sikkim, West Bengal (Darjeeling); 3300–4000 m.

Agrostis pilosula Trin., Mçm. Acad. Imp. Sci. Saint. Pçtersbourg, Sçr. 6, Sci. Math., Seconde Pt. Sci. Nat. 6(2): 372. 1845.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1400–3700 m

Agrostis sikkimensis Bor, Kew Bull. 9: 502. 1954.

Distribution: Sikkim; 2800–4000 m

Agrostis stolonifera L., Sp. Pl. 62. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1500–4000 m.

Agrostis stolonifera var. **ramosa** (S.F.Gray) Veldkamp, lumea 28: 223. 1982. *Vilfa alba* var. *ramosa* Gray

Distribution: Himachal Pradesh, Jammu & Kashmir.

Agrostis tenuis Sibth., Fl. Oxon. 36. 1794.

Distribution: Himachal Pradesh.

Agrostis triaristata Bor, Grass. Burma, Ceylon, India & Pakistan 391. 1960.

Distribution: Sikkim, West Bengal (Darjeeling); 3050–4270 m.

Agrostis tungnathii Bhattacharya & S.K.Jain, Bull. Bot. Surv. India 25: 204 1983 (1985).

Distribution: Uttarakhand.

Agrostis ushae Noltie, Edinburgh J. Bot. 56: 388. 1999.

Distribution: West Bengal (Darjeeling); ca. 4500 m.

Agrostis vinealis Schreb., Spic. Fl. Lips. 47. 1771.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim. Uttarakhand; upto 3740 m.

Agrostis viridis Gouan, Hortus Monsp. 546. 1762.

Distribution: Jammu & Kashmir.

Agrostis zenkeri Trin, Mém. Acad. Imp. Sci. Saint-Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 6: 363. 1845.

Distribution: Sikkim.

Aira L.

Aira caryophyllaea Leers, Fl. Herborn. ed. 2: 24. 1789.

Distribution: Himachal Pradesh.

Alloteropsis J.Presl

Alloteropsis cimicina (L.) Stapf, Fl. Trop. Afr. 9: 487. 1919. *Milium cimicinum* L.

Distribution: Himachal Pradesh; upto 1950 m.

Alloteropsis semialata (R.Br.) Hitchc., Contr. U.S. Natl. Herb. 12: 210. 1909. *Panicum semialatum* R.Br.

Distribution: Sikkim; upto 1950 m.

Alopecurus L.

Alopecurus aequalis Sobol., Fl. Pet rop. 16. 1799.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 1250–2450 m.

Alopecurus arundinaceus Poir., *Encycl.* 8: 766. 1808.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2750–4000 m.

Alopecurus borii Tzvelev, *Novosti Sist. Vyssh. Rast.* 8: 21. 1971.

Distribution: Uttarakhand.

Alopecurus geniculatus L., *Sp. Pl.* 60. 1753.

Distribution: Himachal Pradesh, Sikkim.

Alopecurus himalaicus Hook.f., *Fl. Brit. India* 7: 238. 1896.

Distribution: Jammu & Kashmir.

Alopecurus myosuroides Huds., *Fl. Angl.* 23. 1762.

Distribution: Uttarakhand.

Alopecurus nepalensis Trin. ex Steud., *Syn. Pl. Glumac.* 1: 148. 1854.

Distribution: Uttarakhand.

Alopecurus pratensis L., *Sp. Pl.* 1: 60. 1753.

Distribution: Jammu & Kashmir.

Ampelocalamus S.L.Chen, T.H.Wen & G.Y.Sheng

Ampelocalamus patellaris (Gamble) Stapleton, *Edinburgh J. Bot.* 51: 321. 1994.

Dendrocalamus patellaris Gamble

Distribution: Sikkim, West Bengal (Darjeeling); 700–1500 m.

Andropogon L.

Andropogon ascinodis C.B.Clarke, *Linn. Soc., Bot.* 25: 87. 1889.

Distribution: Sikkim.

Andropogon chinensis (Nees) Merr., *Philipp. J. Sci., C* 12: 101. 1917.

Homoeatherum chinense Nees

Distribution: Arunachal Pradesh; 800–1800 m.

Andropogon munroi C.B.Clarke, *J. Linn. Soc., Bot.* 25: 87. 1889.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–3700 m.

Aniselytron Merr.

Aniselytron treutleri (Kuntze) SojÜk, *Cas. NÜr. Mus., Odd. Prír.* 148: 202. 1980.

Milium treutleri Kuntze

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2000–3500 m.

Anthoxanthum L.

Anthoxanthum flexuosum (Hook.f.) Veldkamp, *lumea* 30: 347. 1985. *Hierochloe flexuosa* Hook.f.

Distribution: Sikkim.

Anthoxanthum hookeri (Griseb.) Rendle, *J. Linn. Soc. Bot.* 36: 380. 1904. *Ataxia hookeri* Griseb.

Distribution: Arunachal Pradesh, Sikkim; 2600–3400 m.

Anthoxanthum horsfieldii (Bennet) Reeder, J. Arnold Arbor. 24: 325. 1950. *Ataxia horsfieldii* Bennet

Distribution: Arunachal Pradesh.

Anthoxanthum laxum (Hook.f.) Veldkamp, Blumea 30: 348. 1985. *Hierochloe laxa* Hook.f.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Anthoxanthum odoratum L., Sp. Pl. 28. 1753.

Distribution: Himachal Pradesh, West Bengal (Darjeeling); 2600–3400 m.

Anthoxanthum sikkimense (Maxim.) Ohwi, Bull. Tokyo Sci. Mus. 18: 8. 1947. *Hierochloe sikkimensis* Maxim.

Distribution: Sikkim; 2600–3400 m.

Apluda L.

Apluda mutica L., Sp. Pl. 82. 1753. *A. aristata* L., *A. varia* Hack.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 800–2500 m.

Apocopis Nees

Apocopis paleacea (Trin.) Hochr., Bull. New York Bot. Gard. 6: 262. 1910. *Ischaemum paleaceum* Trin.

Distribution: Sikkim; 1750 m.

Apocopis vaginata Hack., Oesterr. Bot. Z. 41: 8. 1891.

Distribution: Uttarakhand.

Aristida L.

Aristida adscensionis L., Sp. Pl. 82. 1753.

Distribution: Himachal Pradesh; 400–1000 m.

Aristida cyanantha Steud., Syn. Pl. Glumac. 1: 141. 1854.

Distribution: Himachal Pradesh, Uttarkhand; 200–800 m.

Aristida funiculata Trin. & Rupr., Sp. Gram. Stipac. 159. 1842.

Distribution: Himachal Pradesh; 200–800 m.

Aristida hystriz L.f., Suppl. Pl. 113. 1782.

Distribution: Uttarakhand.

Aristida mutabilis Trin. & Rupr., Sp. Gram. Stipac. 150. 1842.

Distribution: Himachal Pradesh; 200–800 m.

Aristida setacea Retz., Observ. Bot. 4: 22. 1786.

Distribution: Himachal Pradesh; 200–800 m.

Arrhenatherum P.Beauv.

Arrhenatherum elatius (L.) P.Beauv. ex J.Presl & C.Presl., Fl. Cech. 17. 1819. *Avena elatior* L.

Distribution: Uttarakhand.

Arthraxon P.Beauv.

Arthraxon castratus (Griff.) V.Naray. ex Bor, Fl. Assam 5: 376. 1940. *Andropogon castratus* Griff.

Distribution: Arunachal Pradesh, Sikkim; 400–1000 m.

Arthraxon hispidus (Thunb.) Makino, Bot. Mag. (Tokyo) 26: 214. 1912. *Phalaris hispida* Thunb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1500 m.

Arthraxon hispidus var. **santapau** (Bor) Welzen, Blumea 27: 280. 1981. *Arthraxon santapau* Bor

Distribution: Uttarakhand.

Arthraxon lanceolatus (Roxb.) Hochst., Flora 39: 188. 1856. *Andropogon lanceolatus* Roxb.

Distribution: Arunachal Pradesh.

Arthraxon lancifolius (Trin.) Hochst., Flora 39: 188. 1856. *Andropogon lancifolius* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Ben-gal (Darjeeling); 1500–2500 m.

Arthraxon microphyllus (Trin.) Hochst., Flora 39: 188. 1856. *Andropogon microphyllus* Trin.

Distribution: Arunachal Pradesh, Sikkim; 1500–2500 m.

Arthraxon nudus (Steud.) Hochst., Flora 39: 188. 1856. *Andropogon nudus* Steud.

Distribution: Arunachal Pradesh.

Arthraxon prionodes (Steud.) Dandy, Fl. Pl. Sudan 3: 399. 1956. *Andropogon prionodes* Steud.

Distribution: Himachal Pradesh; 1500–2500 m.

Arthraxon submuticus (Nees ex Steud.) Hochst., Flora 39: 188. 1856. *Andropogon submuticus* Steud.

Distribution: Himachal Pradesh; 1500–2500 m.

Arundinaria Michx.

Arundinaria gracilis (Rivière & C.Rivière) Blanch., Rev. Hort. 58: 490. 1886. *Bambusa gracilis* Rivière & C.Rivière

Distribution: Arunachal Pradesh, Sikkim.

Arundinella Raddi

Arundinella bengalensis (Spreng.) Druce, Rep. Bot. Soc. Exch. Club Brit. Isles 1916: 605. 1917. *Panicum bengalense* Spreng.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2500 m.

Arundinella birmanica Hook.f., Fl. Brit. India 7: 73. 1896.

Distribution: Uttarakhand.

Arundinella decempedalis (Kuntze) Janowski, Repert. Spec. Nov. Regni Veg. 17: 84. 1921. *Panicum decempedale* Kuntze

Distribution: Arunachal Pradesh, Sikkim; 700–1000 m.

Arundinella hookeri Munro ex Keng, Nat. Centr. Univ. Sci. Rep., Nanking, Ser. B 2(3): 50. 1936.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2500–3000 m.

Arundinella intricata Hughes, Bull. Misc. Inform. Kew 1920: 112. 1920.

Distribution: Arunachal Pradesh; 200 to 600 m.

Arundinella khasiana Nees ex Steud, Syn. Pl. Glumac. 1: 115. 1854.

Distribution: Arunachal Pradesh.

Arundinella laxiflora Hook.f., Fl. Brit. India 7: 75. 1896.

Distribution: Uttarkhand.

Arundinella metzii Hochst. ex Miq., Verh. Nederl. Inst. 3, 4: 31. 1851.

Distribution: Uttarakhand.

Arundinella nepalensis Trin., Sp. Gram. 3: t. 268. 1829.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); upto 2000 m.

Arundinella nervosa (Roxb.) Nees ex Hook. & Arn., Bot. Beechey Voy. 237. 1837. *Holcus nervosus* Roxb.

Distribution: Himachal Pradesh.

Arundinella pumila (Hochst.) Steud., Syn. Pl. Glumac. 1: 114. 1854. *Acratherum pumilum* Hochst. ex A. Rich.

Distribution: Himachal Pradesh, Uttarkhand.

Arundinella purpurea Hochst. ex Steud., Syn. Pl. Glumac. 1: 74. 1853.

Distribution: Arunachal Pradesh, Uttarakhand.

Arundinella setosa Trin., Gram. Panic. 63. 1826.

Distribution: Himachal Pradesh, Uttarakhand.

Arundinella tuberculata Munro ex Lisboa, Bombay Grasses. 29. 1897.

Distribution: Uttarakhand.

Arundo L.

Arundo donax L., Sp. Pl. 81. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1200–2850 m.

Avena L.

Avena barbata Pott ex Link, J. Bot. (Schrader) 1799(2): 314–315. 1799.

Distribution: Uttarakhand.

Avena byzantina K.Koch, Linnaea 21: 392. 1848.

Distribution: Himachal Pradesh.

Avena fatua L., Sp. Pl. 80. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim; upto 3200 m.

Avena sativa L., Sp. Pl. 79. 1753.

Distribution: Himachal Pradesh, Sikkim; upto 3200 m.

Avena sterilis L. subsp. **ludoviciana** Gillet & Magne, Nouv. Fl. Franç. 532. 1873.

Distribution: Uttarakhand.

Axonopus P. Beauv.

Axonopus compressus (Sw.) P.Beauv., Ess. Agrostogr. 12. 1812. *Milium compressum* Sw.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1200 m.

Bambusa Schreb.

Bambusa balcooa Roxb., Fl. Ind. ed. 1832 2: 196. 1832.

Distribution: Arunachal Pradesh, Uttarakhand. (Plate 333a)

Bambusa bambos (L.) Voss, Vilm. Blumengärtn. ed. 3 1: 1189. 1895. *Arundo bambos* L., *Bambusa arundinacea* Willd.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand. (Plate 333b)

Bambusa burmanica Gamble, Ann. Roy. Bot. Gard. 7: 35. 1896.

Distribution: Arunachal Pradesh, Uttarakhand.

Bambusa copelandii Gamble, Indian Trees 671. 1906.

Distribution: Uttarakhand.

Bambusa jaintiana R.B.Majumdar, Fl. Ind. Enumerat. - Monocot. 274. 1989.

Distribution: Arunachal Pradesh.

Bambusa longispiculata Gamble, Indian Trees 668. 1906.

Distribution: Arunachal Pradesh; upto 1200 m.

Bambusa mompaeana H.B.Naithani, Indian For. 141(5): 587. 2015.

Distribution: Arunachal Pradesh; 1600 m.

Bambusa multiplex (Lour.) Raeusch. ex Schult., Syst. Veg. 7(2): 1350. 1830. *Arundo multiplex* Lour.

Distribution: Uttarakhand.

Bambusa nutans Wall. ex Munro, Trans. Linn. Soc. London 26: 92. 1868.

Distribution: Arunachal Pradesh, Himachal Pradesh; upto 2000 m. (Plate 333c)

Bambusa oliveriana Gamble, Ann. Roy. Bot. Gard. 7: 130. 1896.

Distribution: Sikkim, Uttarakhand.

Bambusa pallida Munro, Trans. Linn. Soc. London 26: 97. 1868.

Distribution: Arunachal Pradesh, Sikkim; upto 2000 m.

Bambusa polymorpha Munro, Trans. Linn. Soc. London 26(1): 98. 1868.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling). (Plate 333d)

Bambusa teres Munro, Trans. Linn. Soc. London 26: 95. 1868.

Distribution: Arunachal Pradesh.

Bambusa tulda Roxb., Fl. Ind. ed. 1832 2: 193. 1832.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1200 m. **(Plate 334a)**

Bambusa vulgaris Schrad., Coll. Pl. 2: 26. 1808.

Distribution: Arunachal Pradesh; 800 to 1500 m. **(Plate 334b)**

Bothriochloa Kuntze

Bothriochloa bladhii (Retz.) S.T.Blake, Proc. Roy. Soc. Queensland 80: 62. 1969.

Andropogon bladhii Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 500– 800 m.

Bothriochloa foulkesii (Hook.f.) Henrard, Blumea 3: 457. 1940. *Andropogon foulkesii* Hook.f.

Distribution: Uttarakhand.

Bothriochloa insculpta (Hochst. ex A. Rich.) A. Camus, Ann. Soc. Linn. Lyon, sér. 2. 76: 165. 1931. *Andropogon insculptus* Hochst. ex A. Rich.

Distribution: Uttarakhand.

Bothriochloa ischaemum (L.) Keng, Contr. Biol. Lab. Sci. Soc. China, Bot. Ser. 10: 201. 1936. *Andropogon ischaemum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 3650 m.

Bothriochloa kuntzeana (Hack.) Henrard, Blumea 3: 456. 1940. *Andropogon kuntzeanus* Hack.

Distribution: Himachal Pradesh; 500– 1800 m.

Bothriochloa pertusa (L.) A. Camus, Ann. Soc. Linn. Lyon n.s., 76: 164. 1931. *Holcus pertusus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 3730 m.

Brachiaria (Trin.) Griseb.

Brachiaria brizantha (A. Rich.) Stapf, Fl. Trop. Afr. 9: 531. 1919.

Distribution: Uttarakhand.

Brachiaria deflexa (Schumach.) C.E. Hubb. ex Robyns Bull. Jard. Bot. État Bruxelles 9: 181. 1932. *Panicum deflexum* Schumach.

Distribution: Uttarakhand.

Brachiaria distachya (L.) Stapf, Fl. Trop. Afr. 9: 565. 1919. *Panicum distachyon* L.

Distribution: Arunachal Pradesh; 200 to 1200 m

Brachiaria eruciformis (Sm.) Griseb., Fl. Ross. 4: 469. 1853. *Panicum eruciforme* Sm.

Distribution: Himachal Pradesh; 200 to 1200 m

Brachiaria ramosa (L.) Stapf, Fl. Trop. Afr. 9: 542. 1919. *Panicum ramosum* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 200 to 1800 m.

Brachiaria remota (Retz.) Haines, Bot. Bihar Orissa 1005. 1924. *Panicum remotum* Retz.
Distribution: Uttarakhand.

Brachiaria reptans (L.) C.A.Gardner & C.E.Hubb., Hooker's Icon. Pl. 34: t. 3363. 1938. *Panicum reptans* L.
Distribution: Himachal Pradesh, Sikkim; 200 to 1800 m.

Brachiaria semiundulata (Hochst. ex A.Rich.) Stapf, Fl. Trop. Afr. 9: 556. 1919. *Panicum semiundulatum* Hochst. ex A.Rich.
Distribution: Uttarakhand.

Brachiaria subquadripara (Trin.) Hitchc., Lingnan Sci. J. 7: 214. 1931. *Panicum subquadripara* Trin.
Distribution: Arunachal Pradesh.

Brachiaria villosa (Lam.) A.Camus, Fl. Indo-Chine 7: 433. 1922. *Panicum villosum* Lam.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200 to 1200 m.

Brachypodium P. Beauv.

Brachypodium distachyon (L.) P.Beauv., Ess. Agrostogr. 101. 1812. *Bromus distachyos* L.
Distribution: Jammu & Kashmir, Uttarakhand, 2650–3100 m.

Brachypodium pinnatum (L.) P. Beauv., Ess. Agrost. 101, 155. 1812. *Bromus distachyos* L.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 4730 m.

Brachypodium sylvaticum (Huds.) P.Beauv., Ess. Agrostogr. 101. 1812. *Festuca sylvatica* Huds.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200 to 1200 m.

Briza L.

Briza media L., Sp. Pl. 70. 1753.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 200 to 1200 m. **(Plate 334c)**

Briza minor L., Sp. Pl. 70. 1753.
Distribution: Himachal Pradesh.

Bromus L.

Bromus arvensis L., Sp. Pl. 77. 1753.
Distribution: Himachal Pradesh; 3000 to 3700 m.

- Bromus barobalianus** G.Singh, Forest Fl. Srinagar 129. 1976.
Distribution: Jammu & Kashmir.
- Bromus briziformis** Fisch. & C.A.Mey., Index Seminum (LE) 3: 30 1837.
Distribution: Uttarakhand.
- Bromus catharticus** Vahl, Symb. Bot. 2: 22. 1791.
Distribution: Himachal Pradesh, West Bengal (Darjeeling); 2250–2610 m.
- Bromus confinis** Nees ex Steud., Syn. Pl. Glumac. 1: 320. 1854.
Distribution: Himachal Pradesh.
- Bromus danthoniae** Trin., C.A.Mey., Verz. Pfl. Cauc. 24. 1831.
Distribution: Himachal Pradesh; upto 4050 m.
- Bromus gracillimus** Bunge, Мѣм.Сав.Éтр. Acad. St. Пѣtersbourg 7: 527. 1851.
Distribution: Himachal Pradesh; upto 4100.
- Bromus himalaicus** Stapf. Fl. Brit. India 7: 358. 1896.
Distribution: Sikkim, West Bengal (Darjeeling); 3000 to 3700 m.
- Bromus hordeaceus** L., Sp. Pl. 77. 1753. *B. mollis* L.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 2600–3200 m.
- Bromus inermis** Leyss., Fl. Halens. 16. 1761.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 5100 m.
- Bromus japonicus** Thunb., Syst. Veg. ed. 14. 119. 1784.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3300–4000 m.
- Bromus lanceolatus** Roth, Catal. Bot. 1: 18. 1797.
Distribution: Himachal Pradesh, Jammu & Kashmir.
- Bromus oxyodon** Schrenk, Enum. Pl. Nov. 2: 1. 1842.
Distribution: Himachal Pradesh.
- Bromus pectinatus** Thunb., Prodr. Pl. Cap. 22. 1794.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3300–4000 m.
- Bromus porphyranthos** Cope, Fl. Pakistan 143: 574. 1982.
Distribution: Sikkim; 3000 to 3600 m.
- Bromus ramosus** Huds., Fl. Angl. 40. 1762.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3300–4000 m.
- Bromus scoparius** L., Cent. Pl. I 6. 1755.
Distribution: Himachal Pradesh, Jammu & Kashmir.
- Bromus sericeus** Ten., Fl. Napol. 1(Prodr.): x 1811.
Distribution: Jammu & Kashmir.
- Bromus staintonii** Melderis, Enum. Fl. Pl. Nepal 1: 125. 1978.
Distribution: Sikkim; 1730–3660 m.

Bromus tectorum L., Sp. Pl. 77. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3850 m.

Bromus tibesticus Maire, Bull. Soc. Hist. Nat. Afrique N. 34: 140. 1943.

Distribution: Jammu & Kashmir.

Calamagrostis Adans.

Calamagrostis abnormis (Hook.f.) U.Shukla, Grasses N. East India 45. 1996.

Deyeuxia abnormis Hook.f.

Distribution: Arunachal Pradesh, Sikkim; 400 to 800 m.

Calamagrostis arundinacea (L.) Roth, Tent. Fl. Germ. 1: 33 1788. *Agrostis arundinacea* L.

Distribution: Uttarakhand.

Calamagrostis canadensis (Michx.) P.Beauv., Ess. Agrostogr. 15, 157 1812. *Arundo canadensis* Michx.

Distribution: Uttarakhand.

Calamagrostis debilis Hook.f., Fl. Brit. India 7: 260. 1896.

Distribution: Sikkim; 400 to 800 m.

Calamagrostis decora Hook.f., Fl. Brit. India 7: 260. 1896.

Distribution: Jammu & Kashmir.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Calamagrostis elatior (Griseb.) A.Camus, Bull. Soc. Bot. France 75: 555. 1928.

C. scabrescens Griseb. var. *elatior* Griseb.

Distribution: Arunachal Pradesh; 400 to 800 m.

Calamagrostis eminens (J. Presl) Steud., Nomencl. Bot. ed. 2, 1: 250. 1840.

Deyeuxia eminens J.Presl

Distribution: Himachal Pradesh; 2200 to 4000 m.

Calamagrostis emodensis Griseb., Nachr. Königl. Ges. Wiss. Georg Augusts Univ. 3: 80. 1868.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 2200 to 4000 m.

Calamagrostis epigejos (L.) Roth, Tent. Fl. Germ. 1: 34. 1788. *Arundo epigejos* L.

Distribution: Himachal Pradesh, Jammu & Kashmir; upto 4000 m.

Calamagrostis garhwalensis C.E.Hubb. & Bor, Indian Forester 68: 355. 1942.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Calamagrostis holciformis Jaub. & Spach, Ill. Pl. Orient. 4: 61. 1851.

Distribution: Himachal Pradesh.

Calamagrostis lahulensis G.Singh, Taxon 33: 94. 1984. *Deyeuxia pulchella* Hook.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3050–4830 m.

Calamagrostis nagarum (Bor) G.Singh, Taxon 33(1): 94. 1984. *Deyeuxia nagarum* Bor

Distribution: Uttarakhand.

Calamagrostis nivicola (Hook.f.) Hand.-Mazz., Symb.Sin.7: 1299. 1936. *Deyeuxia nivicola* Hook.f.

Distribution: Sikkim; 2200 to 4000 m.

Calamagrostis pseudophragmites (Hallerf.) Koeler, Descr. Gramin. 106. 1802. *Arundo pseudophragmites* Hallerf.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500 to 2700 m. **(Plate 335a)**

Calamagrostis scabrescens Griseb., Nachr. Königl.Ges.Wiss. Georg Augusts Univ. 3: 79. 1868.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500 to 2700 m.

Calamagrostis staintonii G.Singh, Taxon 33: 94. 1984.

Distribution: Uttarakhand.

Calamagrostis stolizkai Hook.f., Fl. Brit. India 7: 262. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand, 3000–3800 m.

Calamagrostis tibetica (Bor) Tzvelev, Pl. As. Centr. 4: 86. 1968. *Deyeuxia tibetica* Bor

Distribution: Sikkim; 4880–5140 m

Calamagrostis zenkeri (Trin.) Davidse, Revised Handb. Fl. Ceylon 8: 107. 1994. *Agrostis zenkeri* Trin.

Distribution: Sikkim, 2600–3600 m.

Calamovilfa (A. Gray) Hack. ex Scribn. & Southw.

Calamovilfa gigantea Scribn. & Merr., Circ. Div. Agrostol. U.S.D.A. 35: 2. 1901.

Distribution: Uttarakhand.

Capillipedium Stapf.

Capillipedium assimile (Steud.) A.Camus, Fl. Indo-Chine 7: 314. 1922. *Andropogon assimilis* Steud.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 400 to 1000 m.

Capillipedium huegelii (Hack.) Stapf. Rev. Bot. Appl. Agric. Colon. 1: 306. 1921. *Andropogon huegelii* Hack.

Distribution: Arunachal Pradesh.

Capillipedium parviflorum (R.Br.) Stapf. Fl. Trop. Afr. 9: 169. 1917. *Holcus parviflorus* R.Br.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 400 to 2000 m.

Capillipedium pteropechys (C.B.Clarke) Stapf. Hooker's Icon. Pl. 31: t. 3085. 1922. *Andropogon pteropechys* C.B.Clarke
Distribution: Arunachal Pradesh; 1000 to 1500 m.

Catabrosa P.Beauv.

Catabrosa aquatica (L.) P.Beauv., Ess. Agrostogr. 97. 1812. *Aira aquatica* L.
Distribution: Arunachal Pradesh, Sikkim; 1000 to 1500 m.

Catabrosella (Tzvelev) Tzvelev

Catabrosella himalaica (Hook.f.) Tzvelev, Novosti Sist. Vyssh. Rast. 3: 32. 1966.
Phippsia himalaica Hook.f.

Catapodium Link.

Catapodium rigidum (L.) C.E.Hubb., Fl. Bedfordshire 437. 1953. *Poa rigida* L.
Distribution: Jammu & Kashmir.

Cenchrus L.

Cenchrus alopecuroides (L.) Thunb., Prodr. Pl. Cap. 24. 1794. *Panicum alopecuroides* L.
Distribution: Uttarakhand.

Cenchrus americanus (L.) Morrone, Ann. Bot. (Oxford) 106: 127. 2010. *Panicum americanum* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Cenchrus biflorus Roxb., Fl. Ind. 1: 238. 1820.
Distribution: Uttarakhand.

Cenchrus ciliaris L., Mant. Pl. 2: 302 1771.
Distribution: Uttarakhand.

Cenchrus clandestinus (Hochst. ex Chiov.) Morrone, Ann. Bot. (Oxford) 106: 127. 2010. *Pennisetum clandestinum* Hochst. ex Chiov.
Distribution: Uttarakhand.

Cenchrus flaccidus (Griseb.) Morrone, Ann. Bot. (Oxford) 106: 128. 2010. *Pennisetum flaccidum* Griseb.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Cenchrus lanatus (Klotzsch) Morrone, Ann. Bot. (Oxford) 106: 128. 2010. *Pennisetum lanatum* Klotzsch.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Cenchrus orientalis (Rich.) Morrone, Ann. Bot. (Oxford) 106: 128. 2010. *Pennisetum orientale* Rich.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Cenchrus pedicellatus (Trin.) Morrone, Ann. Bot. (Oxford) 106: 128. 2010. *Pennisetum pedicellatum* Trin.
Distribution: Himachal Pradesh.

Cenchrus pennisetiformis Steud, Syn. Pl. Glumac. 1: 109. 1854.

Distribution: Jammu & Kashmir.

Cenchrus polystachios (L.) Morrone, Ann. Bot. (Oxford) 106: 129. 2010. *Panicum polystachion* L.

Distribution: Uttarakhand.

Cenchrus purpureus (Schumach.) Morrone, Ann. Bot. (Oxford) 106: 129. 2010. *Pennisetum purpureum* Schumach.

Distribution: Uttarakhand.

Centotheca Desv.

Centotheca lappacea (L.) Desv., Nouv. Bull. Sci. Soc. Philom. Paris 2: 189. 1810. *Cenchrus lappaceus* L.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200 to 1000 m.

Centropodia Rchb.

Centropodia forsskalii (Vahl) Cope, Kew Bull. 37: 658. 1983. *Avena forsskalii* Vahl

Distribution: Jammu & Kashmir.

Cephalostachyum Munro

Cephalostachyum capitatum Munro, Trans. Linn. Soc. London 26: 139. 1868. var. **capitatum**

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600 to 2400 m.

Cephalostachyum capitatum var. **decompositum** Gamble, Ann. Roy. Bot. Gard. 7: 105. 1896.

Distribution: Sikkim.

Cephalostachyum fuchsianum Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 107. 1896.

Distribution: Arunachal Pradesh, Sikkim.

Cephalostachyum latifolium Munro, Trans. Linn. Soc. London 26: 140. 1868.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1600 to 2200 m.

Cephalostachyum mannii (Gamble) Stapleton, Kew Bull. 52: 700. 1997. *Arundinaria mannii* Gamble

Distribution: Arunachal Pradesh; 300 to 1600 m.

Cephalostachyum mishimieanum H.B. Naithaani, Indian Forester 140(7): 733–734. 2014.

Distribution: Arunachal Pradesh.

Cephalostachyum pallidum Munro, Trans. Linn. Soc. London 26: 139. 1868. *Schizostachyum pallidum* (Munro) R.B.Majumdar

Distribution: Arunachal Pradesh; 500 to 1500 m.

Cephalostachyum pergracile Munro, Trans. Linn. Soc. London 26: 141. 1868.

Distribution: Arunachal Pradesh.

Chimonobambusa Makino

Chimonobambusa armata (Gamble) Hsueh & T.P.Yi, J. Bamboo Res. 2(1): 38. 1983. *Arundinaria armata* Gamble
Distribution: Himalaya.

Chimonobambusa arunachalensis T.P. Sharma & S.K. Borthakur, Pleione 2(1): 1. 2008.
Distribution: Arunachal Pradesh.

Chimonobambusa callosa (Munro) Nakai, J. Arnold Arbor. 6: 151. 1925. *Arundinaria callosa* Munro
Distribution: Arunachal Pradesh; 1000 to 2000 m. (Plate 335b&c)

Chimonobambusa jainii T.P.Sharma & S.K.Borthakur, J. Econ. Taxon. Bot. 33: 783. 2009.
Distribution: Arunachal Pradesh.

Chimonocalamus (Hsueh & T. P. Yi) C. S. Chao & Renvoize

Chimonocalamus griffithianus (Munro) Hsueh & T.P.Yi, Acta Bot. Yunnan. 1: 83. 1979. *Arundinaria griffithiana* Munro
Distribution: Arunachal Pradesh; 1800 to 2200 m. (Plate 336b)

Chimonocalamus longiusculus Hsueh & T.P.Yi, Acta Bot. Yunnan. 1: 80. 1979.
Distribution: Arunachal Pradesh.

Chionachne R.Br.

Chionachne gigantea (J.Koenig) Veldkamp, Blumea 47: 559. 2002. *Coix gigantea* J.Koenig
Distribution: Uttarkhand.

Chionachne koenigii (Spreng.) Thwaites, Enum. Pl. Zeyl. 357. 1864. *Coix koenigii* Spreng.
Distribution: Uttarkhand.

Chloris Sw.

Chloris barbata Sw., Fl. Ind. Occid. 1: 200 1797.
Distribution: Uttarakhand.

Chloris gayana Kunth, Rçvis. Gramin. 1: 89. 1829.
Distribution: Sikkim; 500–1830 m.

Chloris montana Roxb., Fl. Ind. 1: 331 1820.
Distribution: Uttarakhand.

Chloris virgata Sw., Fl. Ind. Occid. 1: 203. 1797.
Distribution: Himachal Pradesh; 200 to 1200 m.

Chrysopogon Trin.

Chrysopogon aciculatus (Retz.) Trin., Fund. Agrost. 188. 1820. *Andropogon aciculatus* Retz.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200 to 1700 m.

Chrysopogon fulvus (Spreng.) Chiov., Fl. Somalia 1: 327. 1929. *Pollinia fulva* Spreng.

Distribution: Arunachal Pradesh, Himachal Pradesh; 200 to 1200 m.

Chrysopogon gryllus (L.) Trin. Fund. Agrost. 188. 1820. *Andropogon gryllus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 800 to 3900 m.

Chrysopogon gryllus subsp. **echinulatus** (Nees) Cope, Kew Bull. 35: 701. 1980.

Andropogon echinulatus Nees

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Chrysopogon lancearius (Hook.f.) Haines, Bot. Bihar Orissa 1036. 1924.

Andropogon lancearius Hook.f.

Distribution: Sikkim, West Bengal (Darjeeling); 500 to 800 m.

Chrysopogon nodulibarbis (Hochst. ex Steud.) Henrard, Blumea 4: 534. 1941.

Andropogon nodulibarbis Hochst. ex Steud.

Distribution: Uttarakhand.

Chrysopogon serrulatus Trin., Mçm. Acad. Imp. Sci. St. Pçtersbourg, Sçr. 6, Sci. Math. 2: 318. 1833.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarkhand; 200 to 1200 m.

Chrysopogon zeylanicus (Steud.) Thwaites, Enum. Pl. Zeyl. 366. 1864. *Andropogon zeylanicus* Steud.

Distribution: Uttarakhand.

Chrysopogon zizanioides (L.) Roberty, Bull. Inst. Franç. Afrique Noire, A 22: 106. 1960. *Phalaris zizanioides* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand; 500 to 1000 m.

Cleistogenes Keng

Cleistogenes gatacrei (Stapf) Bor, Grass. Burma, Ceylon, India & Pakistan 487. 1960. *Diplachne gatacrei* Stapf

Distribution: Jammu & Kashmir.

Cleistogenes mutica Keng, J. Wash. Acad. Sci. 28: 299. 1938.

Distribution: Jammu & Kashmir.

Coelachne R.Br.

Coelachne simpliciuscula (Steud.) Munro ex Benth., J. Linn. Soc., Bot. 19: 93. 1881. *Panicum simpliciusculum* ex Steud.

Distribution: Arunachal Pradesh, Sikkim; 1300–2700 m.

Coelorachis Brongn.

Coelorachis khasiana (Hack.) Stapf ex Bor, Indian Forest Rec., Bot. n.s., 1: 101. 1938. *Rottboellia striata* Nees ex Steud. subsp. *khasiana* Hack.

Distribution: Sikkim, West Bengal (Darjeeling); 800 to 1500 m.

Coelorachis striata (Steud.) A. Camus, Ann. Soc. Linn. Lyon n.s., 68: 197. 1922.

Rottboellia striata Nees ex Steud.

Distribution: Sikkim; 800 to 1500 m.

Coix L.

Coix aquatica Roxb., Fl. Ind. ed. 1832 3: 571. 1832.

Distribution: Sikkim.

Coix lacryma-jobi L., Sp. Pl. 972. 1753. var. **lacryma-jobi**

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 800 to 1500 m.

Coix lacryma-jobi L. var. **ma-yuen** (Rom. Caill.) Stapf ex Hook.f., Fl. Brit. India 7: 100. 1896. *Coix ma-yuen* Rom. Caill.

Distribution: Arunachal Pradesh, Sikkim; 500 to 1200 m.

Coix lacryma-jobi L. var. **stenocaroa** Oliv., Hooker's Icon. Pl. 18: t. 1764. 1888.

Distribution: Arunachal Pradesh; 400 to 1000 m.

Colpodium Trin.

Colpodium himalaicum (Hook.f.) Bor, Grass. Burma, Ceylon, India & Pakistan 529. 1960. *Phippsia himalaica* Hook.f.

Distribution: Himachal Pradesh; 500 to 1200 m.

Colpodium nutans (Stapf) Bor, Fl. Iran. 70: 54. 1970. *Catabrosa nutans* Stapf.

Distribution: Himachal Pradesh; 500 to 1200 m.

Colpodium wallichii (Stapf) Bor, Kew Bull. 8: 270. 1953. *Catabrosa wallichii* Stapf.

Distribution: Sikkim; 500 to 1200 m.

Critesion Raf.

Critesion bogdanii (Wilensky) A. Love., Fedds. Report. 95(7-8): 438. 1984.

Hordeum bogdanii Wilensky

Distribution: Jammu & Kashmir.

Critesion glaucum (Steud.) Á.Löve, Feddes Repert. 95: 440. 1984. *Hordeum glaucum* Steud.

Distribution: Himachal Pradesh.

Critesion murinum subsp. **leporinum** (Link) Á.Löve, Taxon 29: 350. 1980.

Hordeum leporinum Link

Distribution: Jammu & Kashmir.

Crypsis Aiton

Crypsis schoenoides (L.) Lam., Tabl. Encycl. 1: 166. 1791. *Phleum schoenoides* L.

Distribution: Jammu & Kashmir.

Cyathopus Stapf

Cyathopus sikkimensis Stapf. Hooker's Icon. Pl. 25: t. 2395. 1895.

Distribution: Sikkim, Uttarakhand; 500 to 1200 m.

Cymbopogon Spreng.

Cymbopogon citratus (DC.) Stapf. Bull. Misc. Inform. Kew 1906: 322. 1906.

Andropogon citratus DC.

Distribution: Uttarkhand.

Cymbopogon commutatus (Steud.) Stapf. Bull. Misc. Inform. Kew 1907: 211.

1907. *Andropogon commutatus* Steud.

Distribution: Himachal Pradesh; 700–1200 m.

Cymbopogon distans (Nees ex Steud.) W.Watson, Gaz. N.W. Ind. 392. 1882.

Andropogon distans Nees ex Steud.

Distribution: Himachal Pradesh; 500–1200 m.

Cymbopogon flexuosus (Nees ex Steud.) W.Watson, Gaz. N.W. Ind. 392. 1882.

Andropogon flexuosus Nees ex Steud.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 370–1520 m.

Cymbopogon flexuosus var. **sikkimensis** Bor, J. Bombay Nat. Hist. Soc. 52: 162. 1954.

Distribution: Sikkim.

Cymbopogon gidarba (Buch.-Ham. ex Steud.) A.Camus, Bull. Mus. Natl. Hist.

Nat. 26: 562. 1920. *Andropogon gidarba* Buch.-Ham. ex Steud.

Distribution: Himachal Pradesh; 800–1500 m.

Cymbopogon jwarancusa (Jones) Schult., Mant. 2: 458. 1824. subsp. **jwarancusa**.

Andropogon jwarancusa Jones

Distribution: Himachal Pradesh; 400 to 1000 m.

Cymbopogon jwarancusa (Jones) Schult. subsp. **olivieri** (Boiss.) Soenarko,

Reinwardtia 9: 307. 1977. *C. olivieri* Boiss.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 400 to 1000 m.

Cymbopogon khasianus (Hack.) Stapf ex Bor, Indian Forest Rec., Bot. n.s., 1: 92.

1938. *Andropogon khasianus* Hack.

Distribution: Arunachal Pradesh, Sikkim; 100 to 1500 m.

Cymbopogon martini (Roxb.) W. Watson, Gaz. N.W. Ind. 392. 1882. *Andropogon*

martini Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 900 to 1200 m.

Cymbopogon microstachys (Hook.f.) Soenarko, Reinwardtia 9(3): 364. 1977.

Andropogon nardus var. *microstachys* Hook.f.

Distribution: Uttarakhand.

Cymbopogon microthecus (Hook.f.) A.Camus, Rev. Bot. Appl. Agric. Colon. 1: 284. 1921. *Andropogon microtheca* Hook.f.

Distribution: Sikkim, West Bengal (Darjeeling); 400 to 1200 m.

Cymbopogon nardus (L.) Rendle, Cat. Afr. Pl. 2: 155. 1899. *Andropogon nardus* L.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 400 to 1000 m.

Cymbopogon osmastonii R.Parker, Repert. Spec. Nov. Regni Veg. 31: 126 1932.

Distribution: Uttarakhand.

Cymbopogon pendulus (Nees ex Steud.) W.Watson, Gaz. N.W. Ind. 392. 1882. *Andropogon pendulus* Nees ex Steud.

Distribution: Sikkim, West Bengal (Darjeeling); 400 to 1000 m.

Cymbopogon pospischilii (K.Schum.) C.E.Hubb., Kew Bull. 4: 175. 1949.

Andropogon pospischilii K. Schum.

Distribution: Himachal Pradesh.

Cynodon Rich.

Cynodon aethiopicus Clayton & Harlan, Kew Bull. 24: 187. 1970.

Distribution: Uttarkhand.

Cynodon dactylon (L.) Pers., Syn. Pl. 1: 85. 1805. *Panicum dactylon* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarkhand, West Bengal (Darjeeling); 400 to 1000 m.

Cynodon radiatus Roth, Syst. Veg. 2: 411. 1817.

Distribution: Arunachal Pradesh.

Cyrtococcum Stapf.

Cyrtococcum accrescens (Trin.) Stapf, Hooker's Icon. Pl. 31: t. 3096. 1922.

Panicum accrescens Trin.

Distribution: Uttarkhand.

Cyrtococcum longipes (Wight & Arn. ex Hook.f.) A.Camus, Bull. Mus. Natl. Hist.

Nat. 27: 118. 1921. *Panicum longipes* Wight & Arn. ex Hook.f.

Distribution: Sikkim; 400 to 800 m.

Cyrtococcum oxyphyllum (Hochst. ex Steud.) Stapf, Hooker's Icon. Pl. 31: t. 3096.

1922. *Panicum oxyphyllum* Hochst. ex Steud.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 400 to 800 m.

Cyrtococcum patens (L.) A.Camus, Bull. Mus. Natl. Hist. Nat. 27: 118. 1921.

Panicum patens L.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 400 to 800 m.

Dactylis L.

Dactylis glomerata L., Sp. Pl. 71. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 3000–4500 m. **(Plate 336c)**

Dactyloctenium Willd.

Dactyloctenium aegyptium (L.) Willd., Enum. Pl. 1029. 1809. *Cynosurus aegyptius* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 400–800 m.

Dactyloctenium aristatum Link, Hort. Berol. 1: 59. 1827.

Distribution: Uttarkhand.

Dactyloctenium scindicum Boiss., Diagn. Pl. Orient. II, 4: 131. 1859.

Distribution: Uttarkhand.

Danthonia DC.

Danthonia schneideri Pilg., Repert. Spec. Nov. Regni Veg. 17: 131. 1921.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarkhand.

Danthonia schneideri var. **minor** (Hook.f.) Karthik., Fl. Ind. Enumerat. - Monocot. 204. 1989. *Danthonia cachemyriana* var. *minor* Hook.f.

Distribution: Sikkim.

Dendrocalamus Nees

Dendrocalamus asper (Schult.) Backer, Nutt. Pl. Ned.-Ind. ed. 2, 1: 301. 1927.

Distribution: Uttarkhand.

Dendrocalamus giganteus Munro, Trans. Linn. Soc. London 26: 150. 1868.

Distribution: Arunachal Pradesh; 800 to 1200 m.

Dendrocalamus hamiltonii Nees & Arn. ex Munro, Trans. Linn. Soc. London 26: 151. 1868.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 300 to 1000 m.

Dendrocalamus hookeri Munro, Trans. Linn. Soc. London 26: 151. 1868.

Distribution: Arunachal Pradesh, Sikkim; 300 to 1000 m.

Plate 336a)

Dendrocalamus hookeri var. **parishii** (Munro) Blatt., Indian Forester 55: 594. 1929. *Dendrocalamus parishii* Munro

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim.

Dendrocalamus longispathus (Kurz) Kurz, Prelim. Rep. Forest Pegu App. B: 94. 1875. *Bambusa longispatha* Kurz

Distribution: Uttarakhand.

Dendrocalamus sahnii H.B.Naithani Bahadur, Indian For. 108: 212. 1982.

Distribution: Arunachal Pradesh; upto 1800 m.

Dendrocalamus sikkimensis Gamble ex Oliv., Hooker's Icon. Pl. 18: t. 1770. 1888.

Distribution: Arunachal Pradesh, Sikkim; 1000 to 1800 m.

Dendrocalamus somdevae H.B.Naithani, Indian Forester 119: 504. 1993.

Distribution: Uttarakhand.

Dendrocalamus strictus (Roxb.) Nees, *Linnaea* 9: 476. 1835. *Bambos stricta* Roxb.
Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 300 to 1000 m.

Deschampsia P.Beauv.

Deschampsia cespitosa (L.) P.Beauv., *Ess. Agrostogr.* 91. 1812. *Aira alpina* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 3600 to 4800 m.

Deschampsia koelerioides Regel, *Bull. Soc. Imp. Naturalistes Moscou* 41(2): 299. 1868.

Distribution: Jammu & Kashmir.

Desmostachya (Stapf.) Stapf.

Desmostachya bipinnata (L.) Stapf, *Fl. Cap.* 7: 632. 1900. *Briza bipinnata* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Desmostachya cespitosa (L.) P. Beauv. subsp. **sikkimensis** Noltie, *Edinburgh J. Bot.* 56: 382. 1999.

Distribution: Sikkim.

Deyeuxia Clarion

Deyeuxia debilis (Hook.f.) Veldkamp, *Gard. Bull. Singapore* 37: 220. 1984. *Calamagrostis debilis* Hook.f.

Distribution: Sikkim.

Deyeuxia elatior (Griseb.) Hook.f., *Fl. Brit. India* 7: 266. 1896. *Calamagrostis scabrescens* var. *elatior* Griseb.

Distribution: Sikkim.

Deyeuxia nivicola Hook.f., *Fl. Brit. India* 7: 267. 1896.

Distribution: Sikkim.

Deyeuxia pulchella Hook.f., *Fl. Brit. India* 7: 268. 1896.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Deyeuxia rosea Bor, *Kew Bull.* 9(3): 498. 1954.

Distribution: Sikkim.

Deyeuxia simlensis Bor, *Indian Forest Rec., Bot. n.s.*, 3: 149. 1941.

Distribution: Himachal Pradesh.

Deyeuxia tibetica Bor, *Kew Bull.* 4: 66. 1949.

Distribution: Sikkim.

Dichanthium Willemet

Dichanthium annulatum (Forssk.) Stapf, *Fl. Trop. Afr.* 9: 178. 1917. *Andropogon annulatus* Forssk.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 100 to 1100 m.

Dichanthium caricosum (L.) A.Camus, *Bull. Mus. Natl. Hist. Nat.* 27: 549. 1921. *Andropogon caricosus* L.

Distribution: Sikkim; 100 to 1100 m.

Dichanthium foulkesii (Hook.f.) S.K.Jain & Deshp., Bull. Bot. Surv. India 20(1-4): 134. 1979. *Andropogon foulkesii* Hook.f.

Distribution: Uttarakhand.

Dichanthium foveolatum (Delile) Roberty, Monogr. Syst. Andropog. du Globe 163. 1960. *Andropogon foveolatus* Delile

Distribution: Himachal Pradesh, Sikkim; 100 to 1100 m.

Digitaria Haller.

Digitaria abludens (Roem. & Schult.) Veldkamp, Blumea 21: 53. 1973. *Panicum abludens* Roem. & Schult.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 300–800 m.

Digitaria bicornis (Lam.) Roem. & Schult., Syst. Veg. 2: 470. 1817. *Paspalum bicorne* Lam.

Distribution: Himachal Pradesh; 300–800 m.

Digitaria ciliaris (Retz.) Koeler, Descr. Gramin. 27. 1802.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–800 m.

Digitaria compacta (Roth) Veldkamp, Blumea 21: 71. 1973. *Paspalum compactum* Roth

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–800 m.

Digitaria cruciata (Nees) A.Camus, Fl. Indo-Chine 7: 399. 1922. *Panicum cruciatum* Nees

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–800 m.

Digitaria duthieana Henrard ex Bor, Kew Bull. 8: 273. 1953.

Distribution: Uttarakhand.

Digitaria fuscescens (J.Presl) Henrard, Meded. Rijks-Herb. 61: 8. 1930. *Paspalum fuscescens* J.Presl

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 610 m.

Digitaria griffithii (Hook.f.) Henrard, Blumea 1: 100. 1934. *Paspalum sanguinale* var. *griffithii* Hook.f.

Distribution: Uttarakhand.

Digitaria ischaemum (Schreb.) Muhl., Descr. Gram. 131. 1817. *Panicum ischaemum* Schreb.

Distribution: Himachal Pradesh; 300–800 m.

Digitaria longiflora (Retz.) Pers., Syn. Pl. 1: 85. 1805. *Paspalum longiflorum* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 300–800 m.

Digitaria radicata (J.Presl) Miq., Fl. Ned. Ind. 3: 437. 1857. *Panicum radicosum* J. Presl

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1500 m.

Digitaria sanguinalis (L.) Scop., Fl. Carniol. ed. 2, 1: 52. 1771. *Panicum sanguinale* L.

Distribution: Himachal Pradesh, Sikkim; upto 1800 m.

Digitaria setigera Roth, Syst. Veg. 2: 474. 1817.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 300–800 m.

Digitaria siamensis Henr., Monogr. Digitaria 692. 1950.

Distribution: Arunachal Pradesh.

Digitaria stewartiana Bor, Kew Bull. 6: 166. 1951.

Distribution: Jammu & Kashmir.

Digitaria stricta Roth, Syst. Veg. 2: 474. 1817.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 2100 m.

Digitaria ternata (A.Rich.) Stapf. Fl. Cap. 7: 376. 1898. *Cynodon ternatus* A. Rich.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 300–800 m.

Digitaria violascens Link, Hort. Berol. 1: 229. 1827.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–800 m.

Dimeria R.Br.

Dimeria ornithopoda Trin., Fund. Agrost. 167. 1820. Distribution: Sikkim; 1400 m.

Dinochloa Buse

Dinochloa maclellandii (Munro) Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 253. 1873. *Bambusa maclellandii* Munro

Distribution: Arunachal Pradesh, Uttarakhand; 1400 m.

Drepanostachyum Kengf.

Drepanostachyum falcatum (Nees) Kengf., J. Bamboo Res. 2(1): 16. 1983. *Arundinaria falcata* Nees

Distribution: Himachal Pradesh, Sikkim; 800–1200 m. **(Plate 337a)**

Drepanostachyum intermedium (Munro) Kengf., J. Bamboo Res. 2(1): 18. 1983. *Arundinaria intermedia* Munro

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1000 m.

Drepanostachyum khasianum (Munro) Kengf., J. Bamboo Res. 2(1): 18. 1983. *Arundinaria khasiana* Munro

Distribution: Sikkim.

Drepanostachyum polystachyum (Kurz ex Gamble) R.B.Majumdar, Fl. Ind. Enumerat. Monocot. 277. 1989. *Arundinaria polystachya* Kurz ex Gamble

Distribution: Sikkim; 900–1500 m.

Drepanostachyum suberectum (Munro) R.B.Majumdar, Bull. Bot. Surv. India 25: 236. 1983 (1985). *Arundinaria khasiana* Munro

Distribution: Arunachal Pradesh, Sikkim.

Duthiea Hack.

Duthiea brachypodium (P.Candargy) Keng & Keng f., Acta Phytotax. Sin. 10(2): 182. 1965. *Triavenopsis brachypodium* P.Candargy

Distribution: Uttarakhand.

Duthiea bromoides Hack., Verh. K. K. Zool. Bot. Ges. Wien 45: 200. 1895.

Distribution: Himachal Pradesh; 300–1000 m.

Echinochloa P.Beauv.

Echinochloa colona (L.) Link, Hort. Berol. 2: 209. 1833. *Panicum colonum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 300–1000 m.

Echinochloa crusgalli (L.) P. Beauv., Ess. Agrostogr. 53. 1812. *Panicum crus-galli* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1000 m.

Echinochloa cruspavonis (Kunth) Schult., Mant. 2: 269. 1824. *Oplismenus crus-pavonis* Kunth

Distribution: Arunachal Pradesh.

Echinochloa frumentacea Link, Hort. Berol. 1: 204. 1827.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1000 m.

Echinochloa picta (K.D.Koenig) P.W.Michael, Philipp. J. Weed Sci. 5: 18. 1978. *Panicum pictum* J.Koenig

Distribution: Sikkim.

Echinochloa stagnina (Retz.) P.Beauv., Ess. Agrostogr. 161. 1812. *Panicum stagninum* Retz.

Distribution: Arunachal Pradesh, Sikkim; 300–1000 m.

Eleusine Gaertn.

Eleusine coracana (L.) Gaertn., Fruct. Sem. Pl. 1: 8. 1788. *Cynosurus coracanus* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand; 300–1000 m.

Eleusine indica (L.) Gaertn., Fruct. Sem. Pl. 1: 8.1788. *Cynosurus indicus* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 300–1000 m.

Elymus L.

Elymus borianus (Melderis) Cope, Fl. Pakistan 143: 617 1982. *Agropyron borianum* Melderis

Distribution: Uttarkhand.

Elymus canaliculatus (Nevski) Tzvelev Trudy Bot. Inst. Komarova Akad. Nauk SSSR, Rast. Tsentral. Azii 4: 220 1968. *Agropyron canaliculatum* Nevski
Distribution: Sikkim; 1800–5500 m.

Elymus caninus (L.) L., Fl. Suec. ed. 2: 39. 1755. *Triticum caninum* L.
Distribution: Himachal Pradesh.

Elymus ciliaris (Trin.) Tzevelev, Novosti Sist. Vyssh. Rast. 9: 61. 1972. *Triticum ciliare* Trin.
Distribution: Arunachal Pradesh.

Elymus dahuricus Griseb., Fl. Ross. 4: 331. 1852.
Distribution: Himachal Pradesh; 2620–3800 m.

Elymus dentatus (Hook.f.) Tzvelev, Spisok Rast. Gerb. Fl. S.S.S.R. Bot. Inst. Vsesojuzn. Akad. Nauk 18: 29. 1970. *Agropyron dentatum* Hook.f.
Distribution: Himachal Pradesh.

Elymus dentatus subsp. **elatus** (Hook.f.) Á.Löve, Feddes Repert. 95: 455. 1984. *Agropyron dentatum* var. *elatum* Hook.f.
Distribution: Jammu & Kashmir.

Elymus dentatus subsp. **kashmiricus** (Melderis) Á.Löve, Feddes Repert. 95: 455. 1984. *Agropyron dentatum* var. *kashmiricum* Melderis
Distribution: Jammu & Kashmir.

Elymus dentatus subsp. **scabrus** (Nevski) Á.Löve, Feddes Repert. 95: 455. 1984. *Agropyron dentatum* var. *scabrum* Nevski
Distribution: Jammu & Kashmir.

Elymus duthiei (Melderis) G. Singh, Taxon 32: 639. 1983. *Agropyron duthiei* Melderis
Distribution: Himachal Pradesh.

Elymus fedtschenkoi Tzvelev, Novosti Sist. Vyssh. Rast. 10: 21. 1973.
Distribution: Jammu & Kashmir.

Elymus gangotrianus Pushalkar, D.K.Singh & S.K.Srivast., Kew Bull. 63: 507. 2008 (2009).
Distribution: Uttarakhand.

Elymus himalayanus (Nevski) Tzvelev, Bovosti Syst. Vyssh. Rast. 9: 61. 1972. *Roegneria himalayana* Nevski
Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 3150–4500 m.

Elymus jacquemontii (Hook.f.) Cope, Fl. Pakistan 143: 622. 1982. *Agropyron jacquemontii* Hook.f.
Distribution: Jammu & Kashmir, Uttarakhand.

Elymus kuramensis var. **stokensis** A.Chauhan & D.K.Singh, Bull. Bot. Surv. India 47: 147. 2005.
Distribution: Jammu & Kashmir.

Elymus longiaristatus (Boiss.) Tzvelev, Novosti Sist. Vyssh. Rast. 9: 62. 1972. *Brachypodium longiaristatum* Boiss.

Distribution: Jammu & Kashmir, Uttarakhand; 3000–5200 m.

Elymus longiaristatus subsp. **canaliculatus** (Nevski) Tzvelev, Novosti Sist. Vyssh. Rast. 9: 62. 1972.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand.

Elymus longiaristatus subsp. **duthiei** Á.Löve, Novosti Sist. Vyssh. Rast. 9: 62. 1972.

Distribution: Himachal Pradesh.

Elymus mutabilis (Drobov) Tzvelev, PL. As. Cent. 4: 217. 1968. *Agropyron mutabile* Drobov

Distribution: Himachal Pradesh; upto 4100 m.

Elymus nayarii Karthik., Fl. Ind. Enumerat. - Monocot. 213. 1989.

Distribution: Himachal Pradesh, Uttarakhand.

Elymus nodosus (Nevski) Melderis, J. Linn. Soc., London (Bot.) 76: 376. 1978. *Agropyron nodosum* Nevski.

Distribution: Himachal Pradesh; upto 4100 m.

Elymus × **nothus** (Melderis) G.Singh, Taxon 32: 639. 1983. *Agropyron* × *nothum* Melderis

Distribution: Jammu & Kashmir.

Elymus nutans Griseb., Nachr. Königl. Ges. Wiss. Georg Augusts Univ. 3: 72. 1868.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 1740–4570 m.

Elymus nutans var. **albidus** Bor, Grass. Burma, Ceylon, India & Pakistan 697. 1960.

Distribution: Himachal Pradesh.

Elymus repens (L.) Gould, Madroño 9: 127. 1947. *Triticum repens* L.

Distribution: Himachal Pradesh, West Bengal (Darjeeling); 2100 m.

Elymus russellii (Melderis) Cope, Nasir & Ali, Fl. Pakistan 1.43: 618. 1982. *Agropyron russellii* Melderis

Distribution: Himachal Pradesh, Jammu & Kashmir; upto 4100 m.

Elymus schrenkianus (Fisch. & C.A.Mey.) Tzvelev, Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 20: 428. 1960. *Triticum schrenkianum* Fisch. & C.A. Mey. ex Schrenk

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 3750–4500 m.

Elymus schugnanicus (Nevski) Tzvelev, Novosti Sist. Vyssh. Rast. 9: 62. 1972. *Agropyron schugnanicum* Nevski

Distribution: Himachal Pradesh.

Elymus semicostatus (Nees ex Steud.) Melderis, Enum. Fl. Pl. Nepal 1: 132. 1978.
Agropyron striatum Nees ex Steud.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim to Uttarakhand; 2750–4000 m.

Elymus sibiricus L., Sp. Pl. 83. 1753.

Distribution: Himachal Pradesh.

Elymus sikkimensis (Melderis) Melderis, Enum. Fl. Pl. Nepal 1: 132. 1978.
Agropyron sikkimense Melderis

Distribution: Sikkim; 4500 m.

Elymus × spurius (Melderis) G.Singh, Taxon 32: 639. 1983. *Agropyron spurium*
Melderis

Distribution: Jammu & Kashmir.

Elymus thoroldianus (Oliv.) G.Singh, Taxon 32: 640. 1983. *Agropyron*
thoroldianum Oliv.

Distribution: Sikkim; 4880 m.

Elymus thoroldianus subsp. **laxiusculus** (Melderis) Á.Löve, Feddes Repert. 95:
456. 1984.

Distribution: Sikkim.

Elymus czimganicus (Drobow) Tzvelev, Trudy Bot. Inst. Akad. Nauk S.S.S.R.,
Rast. Tsentral. Azii 4: 22. 1968. *Agropyron czimganicum* Drobow

Distribution: Uttarakhand.

Elytrigia Desv.

Elytrigia repens (L.) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist.
Vyssh. Rast. 1: 14. 1933. *Triticum repens* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand.

Elytrophorus P. Beauv.

Elytrophorus spicatus (Willd.) A.Camus, Fl. Indo-China 7: 547. 1923. *Dactylis*
spicata Willd.

Distribution: Himachal Pradesh.

Enneapogon Desv. & P.Beav.

Enneapogon persicus Boiss., Diagn. Pl. Orient.5: 71. 1844.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim,
Uttarakhand; 300–1000 m.

Enteropogon Nees

Enteropogon dolichostachyus (Lag.) Keng, Clav. Gen. Sp. Gram. Prim. Sin. 197.
1957. *Chloris dolichostachya* Lag.

Distribution: Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); upto 1250 m.

Eragrostiella Bor

Eragrostiella brachyphylla (Stapf) Bor, Indian For. 66: 270. 1940. *Eragrostis brachyphylla* Stapf

Distribution: Himachal Pradesh.

Eragrostiella leioptera (Stapf) Bor, Indian Forester 66: 270. 1940. *Eragrostis leioptera* Stapf

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarkhand.

Eragrostiella nardoides (Trin.) Bor, Indian For. 66: 270. 1940. *Eragrostis nardoides* Trin.

Distribution: Himachal Pradesh.

Eragrostis Wolf.

Eragrostis amabilis (L.) Wight & Arn., Cat. Indian Pl. 2: 105. 1834. *Poa amabilis* L. Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarkhand; 300–1000 m.

Eragrostis atrovirens (Desf.) Trin. ex Steud., Nomencl. Bot. ed. 2, 1: 562. 1840. *Poa atrovirens* Desf.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand; 500–1000 m.

Eragrostis cilianensis (All.) Janch., Mitt. Naturwiss. Vereins Univ. Wien 5: 110. 1907. *Poa cilianensis* All.

Distribution: Himachal Pradesh; 500–1000 m.

Eragrostis coarctata Stapf. Fl. Brit. India 7: 313. 1896.

Distribution: Sikkim; 300–700 m.

Eragrostis curvula (Schrad.) Nees, Fl. Afr. Austral. Ill. 397. 1841. *Poa curvula* Schrad.

Distribution: Himachal Pradesh, Sikkim; 300–700 m.

Eragrostis ferruginea (Thunb.) P.Beauv., Ess. Agrostogr. 71. 1812. *Poa ferruginea* Thunb.

Distribution: Sikkim; 300–700 m.

Eragrostis gangetica (Roxb.) Steud., Syn. Pl. Glumac. 1: 266. 1854. *Poa gangetica* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh; 300–700 m.

Eragrostis japonica (Thunb.) Trin., Mçm. Acad. Imp. Sci. St. Pçtersbourg, Sçr. 6, Sci. Math. 1: 405. 1830. *Poa japonica* Thunb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand; 300–700 m.

Eragrostis minor Host, Fl. Austriaca 1: 135. 1827.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 300–700 m. **Plate 337b)**

Eragrostis multicaulis Steud., Syn. Pl. Glumac. 1: 426. 1854.

Distribution: Sikkim; 1830 m.

Eragrostis nigra Nees ex Steud., Syn. Pl. Glumac. 1: 267. 1854.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 300–700 m.

Eragrostis nutans (Retz.) Nees ex Steud., Nomencl. Bot. ed. 2, 1: 563 1840. *Poa nutans* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 300–1000 m.

Eragrostis papposa (Roem. & Schult.) Steud., Nomencl. Bot. ed. 2, 1: 564. 1840. *Megastachya papposa* Roem. & Schult.

Distribution: Sikkim; 300–1000 m.

Eragrostis pilosa (L.) P. Beauv., Ess. Agrostogr. 71. 1812. *Poa pilosa* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 300–1000 m.

Eragrostis prolifera (Sw.) Steud., Syn. Pl. Glumac. 1: 177. 1854. *Poa prolifera* Sw.

Distribution: Sikkim; 300–1000 m.

Eragrostis riparia (Willd.) Nees, Fl. Bras. Enum. Pl. 2: 512. 1829. *Poa riparia* Willd.

Distribution: Sikkim.

Eragrostis tef (Zucc.) Trotter, Boll. Soc. Bot. Ital. 1918: 62. 1918. *Poa tef* Zuccagni

Distribution: Uttarkhand.

Eragrostis tremula Hochst. ex Steud., Syn. Pl. Glumac. 1: 269. 1854.

Distribution: Himachal Pradesh, Sikkim; 300–1000 m.

Eragrostis unioloides (Retz.) Nees ex Steud., Syn. Pl. Glumac. 1: 264. 1854. *Poa unioloides* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand; 300–1000 m.

Eragrostis viscosa (Retz.) Trin., Mçm. Acad. Imp. Sci. St.-Petersbourg, Sçr. 6, Sci. Math. 1: 397. 1831. *Poa viscosa* Retz.

Distribution: Himachal Pradesh, Sikkim; 300–1000 m.

Eragrostis zeylanica Nees & Meyen, Nov. Actorum Acad. Caes. Leop.–Carol. Nat. Cur. 19 (Suppl. 1): 204. 1843.

Distribution: Arunachal Pradesh.

Eremocaulon Soderstr. & Londoño

Eremocaulon capitatum (Trin.) Londoño, Syst. Bot. 27: 714 2002. *Bambusa capitata* Trin.

Distribution: Arunachal Pradesh; 1000–3000 m.

Eremopoa Roshev.

Eremopoa altaica (Trin.) Roshev., Fl. URSS 2: 431. 1934. *Aira altaica* Trin.

Distribution: Himachal Pradesh Jammu & Kashmir, Uttarakhand; upto 4050 m.

Eremopoa persica (Trin.) Roshev., Fl. URSS 2: 430. 1934. *Poa persica* Trin.

Distribution: Himachal Pradesh, Uttarakhand; 500–1400 m.

Eremopoa persica var. **songarica** (Schrenk) Bor, Grass. Burma, Ceylon, India & Pakistan 532. 1960. *Glyceria songarica* Schrenk
Distribution: Himachal Pradesh, Jammu & Kashmir.

Eremopyrum Staf.

Eremopyrum bonaepartis (Spreng.) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 1: 18. 1933. *Triticum bonaepartis* Spreng.
Distribution: Uttarakhand.

Eremopyrum distans (K.Koch) Nevski, rudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 1: 18. 1933. *Agropyron distans* K.Koch
Distribution: Jammu & Kashmir.

Eriochloa Kunth

Eriochloa procera (Retz.) C.E.Hubb., Bull. Misc. Inform. Kew 1930: 256 1930.
Agrostis procera Retz.
Distribution: Uttarakhand.

Euchlaena Schrad.

Euchlaena mexicana Schrad., Index Seminum (GOET) 1832: 3. 1832.
Distribution: Uttarakhand.

Eulalia Kunth

Eulalia contorta (Brongn.) Kuntze, Revis. Gen. Pl. 2: 775. 1891. *Pogonatherum contortum* Brongn
Distribution: Sikkim, West Bengal (Darjeeling); 300–1200 m.

Eulalia fastigiata (Nees) Haines, Bot. Bihar Orissa 1017. 1924. *Erianthus fastigiatus* Nees ex Steud.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1400 m.

Eulalia fimbriata (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891. *Pollinia fimbriata* Hack.
Distribution: Himachal Pradesh; 500–1400 m.

Eulalia hirtifolia (Hack.) A.Camus, Ann. Soc. Linn. Lyon n.s., 68: 202. 1922.
Pollinia hirtifolia Hack.
Distribution: Himachal Pradesh, Sikkim; 2400 m.

Eulalia leschenaultiana (Decne.) Ohwi, Bull. Tokyo Sci. Mus. 18: 2. 1947.
Andropogon leschenaultianus Decne.
Distribution: Sikkim, Uttarkhand; upto 2400 m.

Eulalia madkotiensis Kandwal, B.K.Gupta & S.K.Srivast., Kew Bull. 62: 519. 2007.
Distribution: Uttarakhand.

Eulalia mollis (Griseb.) Kuntze, Revis. Gen. Pl. 2: 775. 1891. *Erianthus mollis* Griseb.
Distribution: Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2400 m

Eulalia quadrinervis (Hack.) Kuntze, Revis. Gen. Pl. 2: 775. 1891. *Pollinia quadrinervis* Hack.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 300–1200 m.

Eulalia staintonii Bor, Kew Bull. 12: 411. 1957.

Distribution: Uttarakhand.

Eulalia trispicata (Schult.) Henrard, Blumea 3: 453. 1940. *Andropogon trispicatus* Schult.

Distribution: Arunachal Pradesh, Himachal Pradesh.

Eulaliopsis Honda

Eulaliopsis binata (Retz.) C.E.Hubb., Hooker's Icon. Pl. 33: t. 3262: p. 6. 1935. *Andropogon binatus* Retz.

Distribution: Sikkim, West Bengal (Darjeeling); upto 2100 m.

Eulaliopsis duthiei Sur, J. Bombay Nat. Hist. Soc. 72: 815. 1975.

Distribution: Uttarakhand.

Festuca L.

Festuca alaica Drobov, Trudy Bot. Muz. Imp. Akad. Nauk. 16: 134, t. 17: 5. 1916.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 4050 m.

Festuca alata (St.-Yves) Roshev., Komarov, Fl. URSS 2: 528. 1934. *Festuca rubra* L. subsp. *alata* Hack. ex St.-Yves.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Festuca altaica Trin. ex Ledeb., Fl. Altaic. 1: 109. 1829.

Distribution: Himachal Pradesh; upto 5100 m.

Festuca arundinacea Schreb., Spic. Fl. Lips. 57. 1771.

Distribution: Himachal Pradesh, Jammu & Kashmir; upto 5100 m.

Festuca asthenica Hook.f., Fl. Brit. Ind. 7: 354. 1896. *Drymochloa asthenica* (Hook. f.) Holub

Distribution: Jammu & Kashmir.

Festuca bhutanica E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. n.s., 83(4): 117. 1978.

Distribution: Sikkim; 4150–4570 m.

Festuca borianana E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. n.s., 83(4): 115. 1978.

Distribution: Sikkim; 3900–3962 m.

Festuca chumbiensis E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(4): 118. 1978.

Distribution: Uttarakhand.

Festuca coelestis (St.Yves) Krecz. & Bobrov, Fl. URSS 2: 770. 1934. *F. ovina* subsp. *coelestis* St. Yves

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim; upto 5100 m.

Festuca cumminsii Stapf. Fl. Brit. India 7: 349. 1896.

Distribution: Sikkim.

Festuca debilis (Stapf) E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(4): 109. 1978. *Festuca kashmiriana* var. *debilis* Stapf

Distribution: Jammu & Kashmir, Uttarakhand.

Festuca gigantea Vill., Hist. Pl. Dauphiné 2: 110. 1787.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling); upto 5100 m

Festuca hartmannii (Markgr.-Dann.) Alexeev, Byull. Mosk. Obsch. Ispyt. Prior. 83(4): 121. 1978. *Festuca ovina* var. *hartmannii* Markgr. Dann.

Distribution: Himachal Pradesh, Jammu & Kashmir; upto 3850 m.

Festuca kashmiriana Stapf. Fl. Brit. India 7: 351. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 5100 m.

Festuca leptopogon Stapf. Fl. Brit. India 7: 354. 1896.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2000–3350 m.

Festuca levingei Stapf, Fl. Brit. Ind. 7: 352. 1896.

Distribution: Jammu & Kashmir.

Festuca lucida Stapf. Fl. Brit. India 7: 355. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 5100 m.

Festuca modesta Steud., Syn. Pl. Glumac. 1: 316. 1854.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 5100 m.

Festuca nandadevica Hajra, Indian J. Forest. 6: 79. 1983.

Distribution: Uttarakhand.

Festuca nepalica E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 82(3): 99. 1977.

Distribution: Sikkim.

Festuca nitidula Stapf, Fl. Brit. Ind. 7: 350. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Festuca olgae (Regel) Krivot., Not. Syst. Herb. Inst. Bot. Acad. Sci. U.R.S.S. 20: 56. 1960. *Molinia olgae* Regel.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 4500 m.

Festuca ovina L., Sp. Pl. 1: 73. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling).

Festuca pamirica Tzvelev, Not. Syst. Herb. Inst. Bot. Acad. Sci. U.R.S.S. 20: 422. 1960.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 4500 m.

Festuca parvigluma Steud., Syn. Pl. Glumac. 1: 305. 1854.

Distribution: Sikkim, 3050–4880 m.

Festuca poluninii E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(4): 111 1978.

Distribution: Sikkim.

Festuca polycolea Stapf. Fl. Brit. India 7: 349. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3050–3900 m.

Festuca pratensis Huds., Fl. Angl. 37. 1762.

Distribution: Jammu & Kashmir, Uttarakhand.

Festuca richardsonii Hook., Fl. Bor.-Amer. 2: 250. 1840.

Distribution: Jammu & Kashmir.

Festuca rubra L., Sp. Pl. 74. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–4200 m.

Festuca rubra L. subsp. **clarkei** (Stapf) St.-Yves, Candollea 3: 398. 1928. *Festuca rubra* var. *clarkei* Stapf

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim.

Festuca rubra L. var. **villosa** Mert. et Koch ex Roehl., Deutsch. Fl. ed. 3. 1: 645. 1823.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Festuca sanjappae Chandra Sekar & S.K. Srivast., J. Jap. Bot. 80: 72. 2005.

Distribution: Himachal Pradesh; upto 4100 m.

Festuca sibirica Hack. ex Boiss., Fl. Orient. 5: 626. 1884.

Distribution: Himachal Pradesh, Jammu & Kashmir; 4500–5000 m.

Festuca sikkimensis E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(5): 97. 1978.

Distribution: Sikkim.

Festuca simlensis (Stapf) E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(4): 110. 1978. *Festuca kashmiriana* var. *simlensis* Stapf

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Festuca stapfii E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. 83(4): 115. 1978.

Distribution: Sikkim, West Bengal (Darjeeling).

Festuca tibetica (Stapf.) E.B. Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. n.s., 83(4): 118. 1978. *F. valesiaca* Schleich. ex Gaudin var. *tibetica* Stapf.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4270–5800 m.

Festuca undata Stapf., Fl. Brit. India 7: 350. 1896.

Distribution: Sikkim, West Bengal (Darjeeling); 3200–4000 m.

Festuca valesiaca Schleich. ex Gaudin, Agrost. Helv. 1: 242. 1811.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttrakhand; upto 4100 m.

Festuca wallichiana E.B.Alexeev, Byull. Moskovsk. Obshch. Isp. Prir., Otd. Biol. n.s., 83(4): 120. 1978.

Distribution: Jammu & Kashmir, Sikkim; 2600–4830 m.

Garnotia Brongn.

Garnotia acutigluma (Steud.) Ohwi, Bot. Mag. (Tokyo) 55: 393. 1941. *Urachne acutigluma* Steud.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1200 m.

Garnotia polyopogonoides Munro ex Oliv., Hooker's Icon. Pl. 15: t. 1481. 1885.

Distribution: Sikkim; 2000–3000 m.

Garnotia stricta Brongn. var. **longiseta** Hack., Allg. Bot. Z. Syst. 15: 141. 1909.

Distribution: Arunachal Pradesh, Sikkim; 800–1200 m.

Garnotia tenella (Arn. ex Miq.) Janowski, Repert. Spec. Nov. Regni Veg. 17: 86. 1921. *Berghausia tenella* Arn. ex Miq.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1200 m.

Glyceria R. Br.

Glyceria tonglensis C.B.Clarke, J. Linn. Soc., Bot. 15: 119. 1876.

Distribution: Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 2130–4080 m.

Gigantochloa Kurz ex Munro

Gigantochloa albociliata (Munro) Kurz, Forest Fl. Burma 2: 555. 1877. *Oxytenanthera albociliata* Munro

Distribution: Arunachal Pradesh.

Gigantochloa macrostachya Kurz, J. Asiat. Soc. Bengal, Pt. 2, Nat. Hist. 42: 251. 1873.

Distribution: Arunachal Pradesh; 800–1200 m.

Hackelochloa Kuntze

Hackelochloa granularis (L.) Kuntze, Revis. Gen. Pl. 2: 776. 1891. *Cenchrus granularis* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 1000–1500 m.

Hackelochloa porifera (Hackel) Rhind, Grasses Burma 77. 1945. *Manisuris porifera* Hack.

Distribution; Sikkim; 910 m.

Helictotrichon Besser

Helictotrichon junghuhnii (Buse) Henrard, Blumea 3: 425. 1940. *Avena junghuhnii* Buse

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2100–4400 m.

Helictotrichon pratense (L.) Pilg., Repert. Spec. Nov. Regni Veg. 45: 6. 1938. *Avena pratensis* L.

Distribution: Uttarakhand.

Helictotrichon schmidii (Hook.f.) Henrard, Blumea 3(3): 427. 1940. *Avena aspera* var. *schmidii* Hook. f.

Distribution: Uttarakhand.

Helictotrichon uniyalii Kandwal & B.K.Gupta, Nordic J. Bot. 28(1): 47. 2010.

Distribution: Uttarakhand.

Hemarthria R.Br.

Hemarthria altissima (Poir.) Stapf & C.E. Hubb., Bull. Misc. Inform. Kew 1934: 109. 1934. *Rottboellia altissima* Poir.

Distribution: Uttarakhand.

Hemarthria compressa (L.f.) R.Br., Prodr. Fl. Nov. Holl. 207. 1810. *Rottboellia compressa* L.f.

Distribution: Arunachal Pradesh, Himachal Pradesh; upto 1800 m.

Hemarthria protensa Steud., Syn. Pl. Glumac. 1: 359. 1854.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 300–1000 m.

Heteropogon Pers.

Heteropogon contortus (L.) P.Beauv. ex Roem. & Schult., Syst. Veg. 2: 836. 1817. *Andropogon contortus* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; upto 1000 m.

Heteropogon melanocarpus (Elliott) Benth., J. Linn. Soc., Bot. 19: 71. 1881. *Andropogon melanocarpus* Elliott

Distribution: Uttarakhand.

Hierochloe R.Br.

Hierochloe flexuosa Hook.f., Fl. Brit. India 7: 222. 1896.

Distribution: Arunachal Pradesh, Sikkim; upto 1000 m.

Hierochloe laxa Hook.f., Fl. Brit. India 7: 222. 1896.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 4100 m.

Himalayacalamus Kengf.

Himalayacalamus falconeri (Hook.f. ex Munro) Kengf., J. Bamboo Res. 2(1): 24. 1983. *Thamnocalamus falconeri* Hook.f. ex Munro

Distribution: Sikkim, Uttarakhand; 1900–2700 m.

Himalayacalamus hookerianus (Munro) Stapleton, Bamboo Soc. Newsl. 17: 21. 1993. *Arundinaria hookeriana* Munro

Distribution: Sikkim, West Bengal (Darjeeling); 1800–2200 m.

Holcus L.

Holcus lanatus L., Sp. Pl. 1048. 1753.

Distribution: Sikkim, West Bengal (Darjeeling); 2130–3000 m.

Hordeum L.

Hordeum aegiceras Nees ex Royle, Ill. Bot. Himal. Mts. 418. 1840.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim.

Hordeum brevisubulatum (Trin.) Link, Linnaea 17: 391. 1844. *Hordeum secalinum* var. *brevisubulatum* Trin.

Distribution: Jammu & Kashmir.

Hordeum brevisubulatum subsp. **nevskianum** (Bowden) Tzvelev, Novosti Sist. Vyssh. Rast. 8: 66. 1971.. *Hordeum nevskianum* Bowden

Distribution: Himachal Pradesh.

Hordeum marinum subsp. **gussoneanum** (Parl.) Thell., Vierteljahrsschr. Naturf. Ges. Zürich 52: 441. 1908. *Hordeum gussoneanum* Parl.

Distribution: Jammu & Kashmir.

Hordeum murinum L., Sp. Pl. 85. 1753.

Distribution: Himachal Pradesh, Sikkim.

Hordeum spontaneum K.Koch, Linnaea 21: 430. 1848.

Distribution: Sikkim.

Hordeum vulgare L., Sp. Pl. 84. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, West Bengal (Darjeeling); 300–1000 m.

Hyalopoa (Tzvelev) Tzvelev

Hyalopoa nutans (Stapf) E.B.Alexeev ex T.A.Cope, Fl. Pakistan 143: 423. 1982. *Catabrosa nutans* Stapf

Distribution: Himalaya.

Hygroryza Nees

Hygroryza aristata (Retz.) Nees ex Wight & Arn., Edinburgh New Philos. J. 15: 380. 1833. *Pharus aristatus* Retz.

Distribution: Arunachal Pradesh; 300–800 m.

Hymenachne P.Beauv.

Hymenachne amplexicaulis (Rudge) Nees, Fl. Bras. Enum. Pl. 2: 276. 1829. *Panicum amplexicaule* Rudge

Distribution: Arunachal Pradesh.

Hyparrhenia Anderson ex E. Fourm.

Hyparrhenia hirta (L.) Stapf, Fl. Trop. Afr. 9: 315. 1918. *Andropogon hirtus* L.
Distribution: Jammu & Kashmir.

Hystrix Moench

Hystrix duthiei (Stapf. ex Hook.f.) Bor, Indian For. 66: 544. 1940. *Asperella duthiei*
Stapf. ex Hook.f.
Distribution: Himachal Pradesh.

Ichnanthus P. Beauv.

Ichnanthus pallens (Sw.) Munro ex Benth var. **major** (Nees) Stieber, Syst. Bot. 12: 207. 1987. *Panicum pallens* Sw. var. *majus* Nees
Distribution: Arunachal Pradesh, Sikkim; 500–1500 m

Ichnanthus pallens (Sw.) Munro ex Benth, Fl. Hongk. 414. 1861 var. **pallens**.
Panicum pallens Sw.
Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 1070 m.

Ichnanthus vicinus (F.M.Bail.) Merr. Enum. Philipp., Fl. Pl. 1: 70 (1923). *Panicum vicinus* M.Bail.
Distribution: Arunachal Pradesh.

Imperata Cirillo

Imperata cylindrica (L.) Raeusch., Nomencl. Bot. ed. 3: 10. 1797. *Lagurus cylindricus* L.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 600–1500 m.

Isachne R.Br.

Isachne albens Trin., Sp. Gram. 1: t. 85. 1827.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1800 m.

Isachne clarkei Hook.f., Fl. Brit. India 7: 24. 1896.
Distribution: Sikkim; 1500–3300 m.

Isachne dimyloides Bor, Kew Bull. 4: 96. 1949.
Distribution: Sikkim.

Isachne elegans Dalzell, Bombay Fl. 291. 1861.
Distribution: Uttarkhand.

Isachne globosa (Thunb.) Kuntze, Revis. Gen. Pl. 2: 778. 1891. *Milium globosum* Thunb.
Distribution: Arunachal Pradesh, Sikkim, Uttarkhand; 700–1700 m.

Isachne himalaica Hook.f., Fl. Brit. India 7: 23. 1896.
Distribution: Arunachal Pradesh, Sikkim; 1500–3300 m.

Isachne miliacea Roth, Syst. Veg. 2: 476. 1817.

Distribution: Uttarkhand.

Isachne pulchella Roth, Syst. Veg. 2: 476. 1817.

Distribution: Arunachal Pradesh, Uttarkhand.

Isachne sikkimensis Bor, Kew Bull. 4: 115. 1949.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–3300 m.

Ischaemum L.

Ischaemum barbatum Retz., Observ. Bot. 6: 35. 1791.

Distribution: Sikkim; upto 1500 m.

Ischaemum polystachyum J. Presl, Reliq. Haenk. 1: 328. 1830.

Distribution: Himachal Pradesh; upto 1500 m.

Ischaemum rugosum Salisb., Icon. Stirp. Rar. 1: t. 1. 1791.

Distribution: Arunachal Pradesh, Himachal Pradesh; 300–1200 m.

Iseilema Andersson

Iseilema antheophoroides Hack., Monogr. Phan. 6: 683. 1889.

Distribution: Uttarakhand.

Iseilema laxum Hack. ex Duthie, Fodder Grasses North. India 43. 1888.

Distribution: Uttarakhand.

Koeleria Pers.

Koeleria argentea Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 3: 77. 1868.

Distribution: Himachal Pradesh, Jammu & Kashmir.

Koeleria argentea var. **nepalensis** Domin, Biblioth. Bot. 14: 115. 1907.

Distribution: Himachal Pradesh.

Koeleria litvinowii Domin, Biblioth. Bot. 14: 116. 1907.

Distribution: Himachal Pradesh.

Koeleria macrantha (Ledeb.) Schult., Mant. 2: 345. 1824. *Aira macrantha* Ledeb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4100 m. **(Plate 337c)**

Lagurus L.

Lagurus ovatus L., Sp. Pl. 81. 1753.

Distribution: Jammu & Kashmir.

Leersia Sw.

Leersia hexandra Sw., Prodr. Veg. Ind. Occ. 21. 1788.

Distribution: Arunachal Pradesh, Himachal Pradesh; 100–1200 m.

Leersia oryzoides (L.) Sw., Prodr. Veg. Ind. Occ. 21. 1788. *Phalaris oryzoides* L.

Distribution: Jammu & Kashmir.

Leptochloa P. Beauv.**Leptochloa chinensis** (L.) Nees, Syll. Pl. Nov. 1: 4. 1824. *Poa chinensis* L.

Distribution: Himachal Pradesh, Uttarakhand; 100 to upto 1800 m.

Leptochloa panicea (Retz.) Ohwi, Bot. Mag. (Tokyo) 55: 311. 1941. *Poa panicea* Retz.

Distribution: Uttarakhand.

Leymus Hochst.**Leymus secalinus** (Georgi) Tzvelev, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Rast. Tsentral. Azii 4: 209. 1968. *Triticum secalinum* Georgi

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 4100 m.

Littledalea Hemsl.**Littledalea tibetica** Hemsl., Hooker's Icon. Pl. 25: t. 2472. 1896.

Distribution: Himalaya.

Lolium L.**Lolium multiflorum** Lam., Fl. Franç. 3: 621. 1778.

Distribution: Himachal Pradesh; 3000–4500 m.

Lolium perenne L., Sp. Pl. 83. 1753.

Distribution: Sikkim, West Bengal (Darjeeling); upto 1500 m.

Lolium persicum Boiss. & Hohen., Diagn. Pl. Orient. 13: 66. 1854.

Distribution: Uttarakhand.

Lolium remotum var. **aristatum** (Döll) Asch., Fl. Brandenburg 1: 876. 1864. *Lolium linicola* var. *aristatum* Döll

Distribution: Himachal Pradesh, Uttarakhand.

Lolium remotum Schrank, Baier. Fl. 1: 382 1789.

Distribution: Himachal Pradesh, Uttarakhand; upto 1500 m.

Lolium rigidum Gaudin, Agrost. Helv. 1: 334. 1811.

Distribution: Uttarakhand.

Lolium temulentum L., Sp. Pl. 83. 1753.

Distribution: Himachal Pradesh; upto 1500 m.

Lolium temulentum var. **arvense** (With.) Lilj., Utkast Sv. Fl. ed. 3: 80. 1816. *Lolium arvense* With.

Distribution: Himachal Pradesh.

Lophatherum Brongn.**Lophatherum gracile** Brongn., Voy. Monde Phan. 50. 1831.

Distribution: Arunachal Pradesh.

Lygeum Loefl.

Lygeum spartum Loefl. ex L., Gen. Pl. ed. 5 522. 1754.

Distribution: Jammu & Kashmir.

Melanocenchris Nees

Melanocenchris jacquemontii Jaub. & Spach, Ill. Pl. Orient. 4: 36. 1851.

Distribution: Uttarakhand.

Melica L.

Melica nutans L., Sp. Pl. 1: 66. 1753.

Distribution: Jammu & Kashmir.

Melica onoei Franch. & Sav., Enum. Pl. Jap. 2: 603 1878.

Distribution: Jammu & Kashmir.

Melica persica Kunth, Rçvis. Gramin. 1: 351. 1830.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3500–5500 m. **(Plate 338a)**

Melica scaberrima (Steud.) Hook.f., Fl. Brit. India 7: 330. 1896. *Festuca scaberrima* Steud.

Distribution: Himachal Pradesh; 3500–5500 m.

Melica secunda Regel, Trudy Imp. S.-Peterburgsk. Bot. Sada 7: 629. 1880.

Distribution: Jammu & Kashmir.

Melinis P.Beauv

Melinis minutiflora P.Beauv., Ess. Agrostogr. 54. 1812.

Distribution: Arunachal Pradesh.

Melinis repens (Willd.) Zizka, Biblioth. Bot. 38: 55. 1988. *Saccharum repens* Willd.

Distribution: Uttarakhand.

Melocalamus Benth.

Melocalamus indicus R.B.Majumdar, Bull. Bot. Surv. India 25: 236. 1983 (1985).

Distribution: Sikkim; 800–1500 m.

Melocanna Trin.

Melocanna baccifera (Roxb.) Kurz, Prelim. Rep. Forest Pegu App. B: 94. 1875.

Bambusa baccifera Roxb.

Distribution: Sikkim. **(Plate 338b)**

Microstegium Nees

Microstegium ciliatum (Trin.) A.Camus, Fl. Indo-China 7: 259. 1922. *Pollinia ciliata* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 100–1800 m.

Microstegium delicatulum (Hook.f.) A.Camus., Ann. Soc. Linn. Lyon n.s., 68: 200. 1922. *Pollinia delicatula* Hook.f.

Distribution: Uttarakhand.

Microstegium eucnemis (Nees ex Steud.) A.Camus, Ann. Soc. Linn. Lyon sér. 2, 68: 200. 1922. *Pollinia eucnemis* Nees ex Steud.

Distribution: Uttarakhand.

Microstegium falconeri (Hook.f.) Clayton, Kew Bull. 35: 816. 1981. *Ischnochloa falconeri* Hook.f.

Distribution: Himachal Pradesh; 100–1400 m.

Microstegium fasciculatum (L.) Henrard, Blumea 3: 453. 1940. *Andropogon fasciculatus* L.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1400 m.

Microstegium nudum (Trin.) A.Camus, Fl. Indo-Chine 7: 261. 1922. *Pollinia nuda* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; upto 1800 m.

Microstegium petiolare (Trin.) Bor, Indian Forest Rec., Bot. n.s., 1: 87. 1938. *Spodiopogon petiolaris* Trin.

Distribution: Sikkim.

Microstegium vagans (Nees ex Steud.) A.Camus, Ann. Soc. Linn. Lyon n.s., 68: 200. 1922. *Pollinia vagans* Nees ex Steud.

Distribution: Sikkim, Uttarakhand.

Microstegium vimineum (Trin.) A.Camus var. **loharkhetianum** Kandwal & B.K.Gupta, Indian J. Forest. 32(1): 171. 2009.

Distribution: Uttarakhand.

Microstegium vimineum (Trin.) A.Camus, Fl. Indo-China 7: 260. 1922 var. **vimineum**. *Andropogon vimineus* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1500–2000 m.

Milium L.

Milium effusum L., Sp. Pl. 61. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1400–2500 m.

Miscanthus Andersson

Miscanthus fuscus (Roxb.) Benth., J. Linn. Soc., Bot. 19: 65. 1881. *Saccharum fuscum* Roxb.

Distribution: Arunachal Pradesh.

Miscanthus nepalensis (Trin.) Hack., Monogr. Phan.6: 104. 1889. *Eulalia nepalensis* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1400–2500 m.

Miscanthus nudipes (Griseb.) Hack., Monogr. Phan.6: 109. 1889. *Erianthus nudipes* Griseb.

Distribution: Arunachal Pradesh, Sikkim; 2100–2700 m.

Miscanthus wardii Bor, Kew Bull. 8: 274. 1953.

Distribution: Sikkim.

Mnesithea Kunth

Mnesithea granularis (L.) de Koning & Sosef, Blumea 31: 295. 1986.

Distribution: Himachal Pradesh, Uttarakhand.

Mnesithea laevis (Retz.) Kunth, Rçvis. Gramin. 1: 154. 1829. *Rottboellia laevis* Retz.

Distribution: Himachal Pradesh.

Muhlenbergia Schreb.

Muhlenbergia duthieana Hack., Oesterr. Bot. Z. 52: 11. 1902.

Distribution: Himachal Pradesh, Uttarakhand; 1000–2000 m.

Muhlenbergia himalayensis Hack. ex Hook.f., Fl. Brit. India 7: 259. 1896.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1000–2000 m.

Muhlenbergia huegelii Trin., Mçm. Acad. Imp. Sci. Saint Pçtersbourg, Sçr. 6, Sci. Math., Seconde Pt. Sci. Nat. 6(2): 293. 1845.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–2000 m.

Muhlenbergia mexicana Trin., Gram. Unifl. Sesquifl. 189. 1824.

Distribution: Uttarakhand.

Muhlenbergia rakhchamensis Arumugam, Murthy & V.J.Nair, Indian J. Forest. 36(1): 51–54, f. 1. 2013.

Distribution: Himachal Pradesh; 2950 m.

Neohouzeaua A.Camus

Neohouzeaua dullooa (Gamble) A.Camus, Bull. Mus. Natl. Hist. Nat. 28: 101. 1922. *Teinostachyum dullooa* Gamble

Distribution: Sikkim, Uttarakhand.

Neohouzeaua helferi (Munro) Gamble, Bull. Misc. Inform. Kew 1923: 91. 1923.

Bambusa helferi Munro

Distribution: Arunachal Pradesh.

Neomicrocalamus Kengf.

Neomicrocalamus prainii (Gamble) Kengf., J. Bamboo Res. 2(2): 10. 1983.

Microcalamus prainii Gamble

Distribution: Arunachal Pradesh.

Neyraudia Hook.f.

Neyraudia arundinacea (L.) Henrard, Meded. Rijks Herb. 58: 8. 1929. *Aristida arundinacea* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1000 m.

Neyraudia reynaudiana (Kunth) Keng ex Hitchc., Amer. J. Bot. 21: 131. 1934.

Arundo reynaudiana Kunth

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1800–2000 m.

Ochthochloa Edgew.

Ochthochloa compressa (Forssk.) Hilu, Kew Bull. 36: 560. 1981. *Panicum compressum* Forssk.

Distribution: Himachal Pradesh.

Ophiuros C.F.Gaertn.

Ophiuros exaltatus (L.) Kuntze, Revis. Gen. Pl. 2: 780. 1891. *Aegilops exaltata* L.

Distribution: Himachal Pradesh, Sikkim; upto 1000 m.

Ophiuros megaphyllus Stapf ex Haines, Bot. Bihar Orissa 1058. 1924.

Distribution: West Bengal (Darjeeling).

Oplismenus P.Beauv.

Oplismenus burmanni (Retz.) P.Beauv., Ess. Agrostogr. 54. 1812. *Panicum burmannii* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarkhand, West Bengal (Darjeeling); upto 1800 m.

Oplismenus compositus (L.) P.Beauv., Ess. Agrostogr. 54. 1812. *Panicum compositum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); upto 2400 m.

Oplismenus undulatifolius (Ard.) Roem. & Schult., Syst. Veg. 2: 482. 1817. *Panicum undulatifolium* Ard.

Distribution: Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2700 m.

Orinus Hitchc.

Orinus thoroldii (Stapf ex Hemsl.) Bor, Kew Bull. 6: 454. 1951. *Diplachne thoroldii* Stapf ex Hemsl.

Distribution: Jammu & Kashmir.

Oropetium Trin.

Oropetium roxburghianum (Schult.) S.M.Phillips, Kew Bull. 30: 469. 1975. *Lepturus roxburghianus* Schult.

Distribution: Uttarakhand.

Oropetium thomaeum Trin., Fund. Agrost. 98, t. 3. 1820.

Distribution: Uttarakhand.

Oropetium villosulum Stapf ex Bor, Kew Bull. 4: 571. 1949.

Distribution: Uttarakhand.

Oryza L.

Oryza glaberrima Steud., Syn. Pl. Glumac. 1:3. 1853.

Distribution: Uttarakhand.

Oryza meyeriana (Zoll. & Moritzi) Baill., Hist. Pl. 12: 166. 1894. *Padia meyeriana*
Zoll. & Moritzi

Distribution: Sikkim.

Oryza minuta J. Presl, Reliq. Haenk. 1: 208. 1830.

Distribution: West Bengal (Darjeeling); 150–610 m.

Oryza officinalis Wall. ex Watt, Dict. Econ. Prod. India 5: 501. 1891.

Distribution: Sikkim.

Oryza rufipogon Griff., Not. Pl. Asiat. 3: 5. 1851.

Distribution: Uttarkhand.

Oryza sativa L., Sp. Pl. 333. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); upto 1300 m.

Panicum L.

Panicum antidotale Retz., Observ. Bot. 4: 17. 1786.

Distribution: Himachal Pradesh, Uttarkhand; upto 1500 m.

Panicum atrosanguineum Hochst. ex A. Rich., Tent. Fl. Abyss. 2: 375. 1850.

Distribution: Arunachal Pradesh, Himachal Pradesh; upto 1500 m.

Panicum auritum J. Presl ex Nees, Fl. Bras. Enum. Pl. 2: 176. 1829.

Distribution: Arunachal Pradesh, Sikkim; 500–1200 m.

Panicum brevifolium L., Sp. Pl. 59. 1753.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1000 m.

Panicum curviflorum Hornem., Hort. Bot. Hafn. Suppl.: 116. 1819.

Distribution: Himachal Pradesh, West Bengal (Darjeeling); 500–1000 m.

Panicum humidorum Buch.-Ham. ex Hook.f., Fl. Brit. India 7: 53. 1896.

Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

Panicum humile Steud., Syn. Pl. Glumac. 1: 84. 1854.

Distribution: Sikkim; 500–1000 m.

Panicum incisum Munro ex C.B. Clarke, Linn. Soc., Bot. 25: 84. 1889.

Distribution: Arunachal Pradesh; 800–1500 m.

Panicum incomtum Trin., Gram. Panic. 200. 1826.

Distribution: Arunachal Pradesh; 500–1500 m.

Panicum khasianum Munro ex Hook.f., Fl. Brit. India 7: 54. 1896.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000–1600 m.

Panicum luzonense J. Presl, Reliq. Haenk. 1: 308. 1830.

Distribution: Arunachal Pradesh.

Panicum maximum Jacq., Icon. Pl. Rar. 1: t. 13. 1781.

Distribution: Sikkim; 400–1300 m.

Panicum miliaceum L., Sp. Pl. 58. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 500–1500 m.

Panicum notatum Retz., Observ. Bot. 4: 18. 1786.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 100–1000 m.

Panicum paludosum Roxb., Fl. Ind. 1: 310. 1820.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1200–1800 m.

Panicum repens L., Sp. Pl. ed. 2 87. 1762.

Distribution: Sikkim; 100–1000 m.

Panicum sarmentosum Roxb., Fl. Ind. 1: 308 1820.

Distribution: Arunachal Pradesh, Sikkim; upto 1000 m.

Panicum sumatrense Roth, Syst. Veg. 2: 434. 1817.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 600 m.

Panicum trypheron Schult., Mant. 2: 244. 1824.

Distribution: Himachal Pradesh.

Panicum walense Mez, Bot. Jahrb. Syst. 34: 146. 1904.

Distribution: Uttarakhand.

Paracolpodium Tzvelev

Paracolpodium altaicum subsp. **leucolepis** (Nevski) Tzvelev, Novosti Sist. Vyssh.

Rast. 3: 33. 1966. *Colpodium leucolepis* Nevski

Distribution: Himachal Pradesh, Jammu & Kashmir.

Paspalidium Stapf

Paspalidium flavidum (Retz.) A.Camus, Fl. Indo-Chine 7: 419. 1922. *Panicum flavidum* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Paspalidium punctatum (Burm.f.) A.Camus, Fl. Indo-Chine 7: 419. 1922. *Panicum punctatum* Burm.f.

Distribution: Arunachal Pradesh, Sikkim; 500–1500 m.

Paspalum L.

Paspalum conjugatum P.J.Bergius, Acta Helv. Phys. Math. 7: 129. 1772.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1500 m.

Paspalum dilatatum Poir., Encycl. 5: 35. 1804.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–2000 m.

Paspalum distichum L., Syst. Nat. ed. 10 2: 855. 1759.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; upto 1500 m.

Paspalum longifolium Roxb., Fl. Ind. 1: 280. 1820.

Distribution: Arunachal Pradesh.

Paspalum paspalodes (Michx.) Scribn., Mem. Torrey Bot. Club 5: 29. 1894.

Digitaria paspalodes Michx.

Distribution: Uttarakhand.

Paspalum scrobiculatum L., Mant. Pl. 1: 29. 1767.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 1500–2000 m.

Paspalum thunbergii Kunth ex Steud., Syn. Pl. Glumac. 1: 28. 1853.

Distribution: Sikkim, West Bengal (Darjeeling); 1410–3060 m.

Paspalum vaginatum Sw., Prodr. Veg. Ind. Occ. 21. 1788.

Distribution: Uttarakhand.

Pennisetum Rich.

Pennisetum alopecuroides (L.) Spreng., Syst. Veg. 1: 303. 1824. *Panicum alopecuroides* L.

Distribution: Arunachal Pradesh.

Pennisetum americanum (L.) K. Schum., Pflanzenw. Ost Afrikas 5B: 51. 1895.

Panicum americanum L.

Distribution: Arunachal Pradesh, Uttarakhand (cultivated).

Pennisetum clandestinum Hochst. ex Chiov., Annuario Reale Ist. Bot. Roma 8: 41. 1903.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1500 m.

Pennisetum flaccidum Griseb., Nachr. Königl. Ges. Wiss. Georg Augusts Univ. 3: 86. 1868.

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; upto 1000 m.

Pennisetum glaucum (L.) R.Br., Prodr. Fl. Nov. Holl. 195. 1810. *Panicum glaucum* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand; 100–1500 m.

Pennisetum hohenackeri Hochst. ex Steud., Syn. Pl. Glumac. 1: 103. 1854.

Distribution: Arunachal Pradesh.

Pennisetum lanatum Klotzsch, Bot. Ergebn. Reise Waldemar 65. 1862.

Distribution: Himachal Pradesh, Uttarakhand; 300 to 1000 m.

Pennisetum orientale Rich., Syn. Pl. 1: 72 1805.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 1000 m.

Pennisetum pedicellatum Trin., Mém. Acad. Imp. Sci. Saint Pétersbourg, Sér. 6, Sci. Math., Seconde Pt. Sci. Nat. 3(2): 184. 1834.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1000 m.

Pennisetum polystachion (L.) Schult., Mant. 2: 146. 1824. *Panicum polystachion* L.

Distribution: Uttarakhand.

Pennisetum purpureum Schumach., Beskr. Guin. Pl. 44. 1827.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1000 m.

Perotis Aiton

Perotis hordeiformis Nees ex Hook. & Arn., Bot. Beechey Voy. 247. 1838.

Distribution: Uttarakhand.

Perotis indica (L.) Kuntze, Revis. Gen. Pl. 2: 787. 1891. *Anthoxanthum indicum* L.

Distribution: Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 300–700 m.

Phacelurus Griseb.

Phacelurus speciosus (Steud.) C.E.Hubb., Bull. Misc. Inform. Kew 1928: 35. 1928. *Andropogon speciosus* Steud.

Distribution: Himachal Pradesh, Uttarakhand; 2750–3300 m.

Phacelurus zea (C.B.Clarke) Clayton, Kew Bull. 33: 177. 1978. *Rottboellia zea* C.B. Clarke

Distribution: Sikkim; upto 1000 m.

Phaenosperma Munro ex Benth.

Phaenosperma globosum Munro ex Oliv., J. Linn. Soc., Bot. 19: 59. 1881.

Distribution: Arunachal Pradesh; 1800–3500 m.

Phalaris L.

Phalaris aquatica L., Cent. Pl. I 4. 1755.

Distribution: Uttarakhand.

Phalaris arundinacea L., Sp. Pl. 55. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Phalaris minor Retz., Observ. Bot. 3: 8. 1783.

Distribution: Jammu & Kashmir, Sikkim, Uttarakhand; 500–1500 m.

Phleum L.

Phleum alpinum L., Sp. Pl. 59 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 3300–3900 m.

Phleum himalaicum Mez, Repert. Spec. Nov. Regni Veg. 17: 293. 1921.

Distribution: Himachal Pradesh, Uttarakhand; 3300–3900 m.

Phleum paniculatum Huds., Fl. Angl. 23. 1762.

Distribution: Himachal Pradesh, Uttarakhand; 3300–3900 m.

Phleum pratense L., Sp. Pl. 59. 1753.

Distribution: Himachal Pradesh, Uttarakhand; 3300–3900 m.

Phragmites Adans.

Phragmites australis (Cav.) Trin. ex Steud., Nomencl. Bot. ed. 2, 2: 324. 1841.

Arundo australis Cav.

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; upto 3800 m.

Phragmites bhattacharyae Kandwal, Uniyal & Rajesw., J. Jap. Bot. 85(3): 153. 2010.

Distribution: Jammu & Kashmir.

Phragmites karka (Retz.) Trin. ex Steud., Nomencl. Bot. ed. 2, 2: 324. 1841.

Arundo karka Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Uttarakhand, West Bengal (Darjeeling); 1200–1600 m.

Phyllostachys Siebold & Zucc.

Phyllostachys aurea Rivière & C.Rivière, Bull. Soc. Acclim. France III, 5: 716. 1878.

Distribution: Himachal Pradesh.

Phyllostachys bambusoides Siebold & Zucc., Abh. Math. Phys. Cl. Königl. Bayer. Akad. Wiss. 3: 745. 1843.

Distribution: Himachal Pradesh; 1000–1500 m.

Phyllostachys mannii Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 28. 1896. *P. assamica* Gamble

Distribution: Arunachal Pradesh, Sikkim; 800–2000 m. **(Plate 338c)**

Phyllostachys nigra (Lodd. ex Lindl.) Munro, Trans. Linn. Soc. London 26: 38. 1868. *Bambusa nigra* Lodd. ex Lindl.

Distribution: Himalaya.

Piptatherum P. Beauv.

Piptatherum aequiglume (Duthie ex Hook.f.) Roshev., Bot. Mater. Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 14: 113. 1951. *Oryzopsis aequiglumis* Duthie ex Hook.f.

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir; 2700–4500 m.

Piptatherum gracile Mez, Repert. Spec. Nov. Regni Veg. 17: 211. 1921.

Distribution: Himachal Pradesh, Uttarakhand; 2700–4500 m.

Piptatherum hilariae Pazij, Bot. Mater. Gerb. Inst. Bot. Zool. Akad. Nauk Uzbeksk. S.S.R. 10: 20, 1948.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3800 m.

Piptatherum laterale (Regel) Nevski, Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 4: 217. 1937. *Milium laterale* Regel.

Distribution: Himachal Pradesh, Uttarakhand, Jammu & Kashmir; upto 3900 m.

Piptatherum microcarpum (Pilg.) Tzvelev, Novosti Sist. Vyssh. Rast. 11: 12. 1974. *Oryzopsis microcarpa* Pilg.

Distribution: Himachal Pradesh; 4500–5000 m.

Piptatherum munroi (Stapf ex Hook.f.) Mez, Repert. Spec. Nov. Regni Veg. 17: 212. 1921. *Oryzopsis munroi* Stapf. ex Hook.f.

Distribution: Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 4500–5000 m.

Pleioblastus Nakai

Pleioblastus simonii (Carrière) Nakai, J. Arnold Arbor. 6: 147. 1925. *Bambusa simonii* Carrière

Distribution: Arunachal Pradesh; 2500–3000 m.

Poa L.

Poa aitchisonii Boiss., FL Orient. 5: 602. 1884.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 4150 m.

Poa albertii Regel subsp. *arnoldi* Olonova & H.H. Zhu, Fl. China. 22:308: 2006.

Distribution: Uttarakhand.

Poa alpigena Lindm., Sv. Fanerogamfl. 91. 1918. *P. poophagorum* Bor. var. *lanata* Bor

Distribution: Himachal Pradesh, Sikkim; upto 5000 m.

Poa alpina L., Sp. Pl. 67. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 4150 m.

Poa angustifolia L., Sp. Pl. 67. 1753.

Distribution: Himachal Pradesh; 3000–5000 m.

Poa annua L., Sp. Pl. 68. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1800–2500 m.

Poa araratica Trautv., Trudy Imp. S. Peterburgsk. Bot. Sada 2: 486. 1873.

Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa asperifolia Bor, Kew Bull. 7: 130. 1952.

Distribution: Sikkim.

Poa attenuata Trin., Mem. Acad. Sci. St. Petersbourg Sav. Etrang. 2: 327. 1835.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; upto 4150 m.

Poa bactriana Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada R.S.F.S.R. 4: 93. 1923.
Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa bactriana subsp. **glabriflora** (Roshev. ex Ovcz.) Tzvelev, Novosti Sist. Vyssh. Rast. 10: 96. 1973. *Poa glabriflora* Roshev. ex Ovcz.
Distribution: Himachal Pradesh, Jammu & Kashmir.

Poa bulbosa L., Sp. Pl. 70. 1753.
Distribution: Himachal Pradesh; 3000–5000 m.

Poa calliopsis Litv. ex Ovcz., Trudy Tadzhisk. Bot. Sada 1(1): 11–18. 1933.
Distribution: Himachal Pradesh; 3000–5000 m.

Poa compressa L., Sp. Pl. 69. 1753.
Distribution: Himachal Pradesh; 3000–5000 m.

Poa cooperi Noltie, Edinburgh J. Bot. 57: 283. 2000.
Distribution: Sikkim, ca 3050 m.

Poa dzongicola Noltie, Edinburgh J. Bot. 57: 283. 2000.
Distribution: Sikkim, 3760–4100 m.

Poa eleanorae Bor, Kew Bull. 3: 142. 1948.
Distribution: Sikkim.

Poa falconeri Hook.f., Fl. Brit. India 7: 342. 1896.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–5000 m.

Poa gammieana Hook.f., Fl. Brit. India 7: 345. 1896.
Distribution: Sikkim, 3500–3800 m.

Poa garhwalensis D.C.Nautiyal & R.D.Gaur, J. Bombay Nat. Hist. Soc. 96: 285. 1999.
Distribution: Uttarakhand.

Poa glauca Vahl, Fl. Dan. 17: 3 1790.
Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa harae Rajbh., Acta Phytotax. Geobot. 39: 55. 1988.
Distribution: Uttarakhand.

Poa himalayana Nees ex Steud., Syn. Pl. Glumac. 1: 256. 1854.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 3000–4000 m.

Poa hirtiglumis Hook.f., Fl. Brit. India 7: 343. 1896.
Distribution: Himachal Pradesh, Uttarakhand; upto 3900 m.

Poa humilis Ehrh. ex Hoffm., Deutschl. Fl. 1: 45. 1800.
Distribution: Himalaya.

Poa hylobates Bor, Bull. Bot. Surv. India 7: 132. 1965.
Distribution: Himachal Pradesh, Sikkim; 4000–4900 m.

- Poa imperialis** Bor, Kew Bull. 1957: 414. 1957.
Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3900 m.
- Poa infirma** Kunth, Nov. Gen. Sp. 1: 158. 1816.
Distribution: Jammu & Kashmir, Uttarakhand.
- Poa jaunsarensis** Bor, Kew Bull. 3: 143. 1948.
Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.
- Poa khasiana** Stapf, Fl. Brit. India 7: 343. 1896.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1000–4200 m.
- Poa koelzii** Bor, Kew Bull. 3: 139. 1948.
Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.
- Poa lahulensis** Bor, Kew Bull. 3: 138. 1948.
Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3000–5000 m. **(Plate 339c)**
- Poa longii** Noltie, Edinburgh J. Bot. 57: 285. 2000.
Distribution: Sikkim, 3430–4000 m.
- Poa mairei** Hack., Repert. Spec. Nov. Regni Veg. 12: 387. 1913.
Distribution: Sikkim; 4000–4900 m.
- Poa markgrafii** H.Hartmann, Candollea 39: 514. 1984.
Distribution: Jammu & Kashmir.
- Poa mustangensis** Rajbh., Acta Phytotax. Geobot. 39: 61. 1988.
Distribution: Sikkim, 4570–4880 m.
- Poa nephelophila** Bor, Kew Bull. 3: 140. 1948.
Distribution: Himachal Pradesh, Uttarakhand.
- Poa nemoralis** L., Sp. Pl. 69. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 3000–5000 m.
- Poa nepalensis** (Wall. ex Griseb.) Duthie, List Grasses N.W. India 40. 1883. *P. annua* L. var. *nepalensis* Wall. ex Griseb.
Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand, Jammu & Kashmir, Sikkim; upto 4300 m.
- Poa nephelophila** Bor, Kew Bull. 3: 140. 1948.
Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.
- Poa nitidespiculata** Bor, Kew Bull. 3: 139. 1948.
Distribution: Sikkim, Uttarakhand; 2000–4000 m.
- Poa pagophila** Bor, Kew Bull. 4: 239. 1949.
Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3800–4600 m.
- Poa palustris** L., Syst. Nat. ed. 10 2: 874. 1759.
Distribution: Jammu & Kashmir.

Poa poiphagorum Bor, Kew Bull. 3: 143. 1948.

Distribution: Sikkim.

Poa polycolea Stapf, Fl. Brit. India 7: 342. 1896.

Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa polyneura Bor, Kew Bull. 7: 223. 1952.

Distribution: Sikkim; 3950–4115 m.

Poa poophagorum Bor, Kew Bull. 1948: 143. 1948.

Distribution: Uttarakhand; 3450–4300 m.

Poa pratensis L., Sp. Pl. 67. 1753.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–5000 m.

Poa pseudamoena Bor, Kew Bull. 8: 276. 1953.

Distribution: Uttarakhand.

Poa pseudotibetica Noltie, Edinburgh J. Bot. 57: 279. 2000.

Distribution: Sikkim; 5420 m.

Poa rajbhandarii Noltie, Edinburgh J. Bot. 57: 288. 2000.

Distribution: Sikkim, West Bengal (Darjeeling); 2700–3960 m.

Poa rhadina Bor, Kew Bull. 1948: 138. 1948.

Distribution: Uttarakhand, 2600–3250 m.

Poa rohmooiana Noltie, Edinburgh J. Bot. 57: 281. 2000.

Distribution: Sikkim; ca. 4570 m.

Poa royleana Nees ex Steud., Syn. Pl. Glumac. 1: 256. 1854.

Distribution: Uttarakhand.

Poa setulosa Bor, Kew Bull. 3: 142. 1948.

Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa sikkimensis (Stapf.) Bor, Kew Bull. 7: 130. 1952. *P. annua* L. var. *sikkimensis* Stapf.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3700–4500 m.

Poa sinaica Steud., Syn. Pl. Glumac. 1: 256. 1854.

Distribution: Western Himalaya.

Poa stapfiana Bor, Kew Bull. 4: 239. 1949.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 3000–5000 m.

Poa sterilis M.Bieb., Fl. Taur. Caucas. 1: 62. 1808.

Distribution: Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa stewartiana Bor, Kew Bull. 6: 185. 1951.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, Jammu & Kashmir; 3000–5000 m.

Poa supina Schrad., Fl. Germ. 289. 1806.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 3000–5000 m.

Poa suruana H. Hartmann, Candollea 39: 516. 1984.

Distribution: Jammu & Kashmir.

Poa szechuensis Rendle var. *rossbergiana* Soreng & G.H. Zhu, Fl. China 22: 295. 2005.

Distribution: Sikkim.

Poa tibetica Munro ex Stapf, Fl. Brit. India 7: 339. 1896.

Distribution: Himachal Pradesh; 3000–5000 m.

Poa tibetica Bor, Kew Bull. 3: 139. 1948.

Distribution: Sikkim; ca. 5000 m.

Poa trivialis L., Sp. Pl. 67. 1753.

Distribution: Himachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 3000–5000 m.

Poa wardiana Bor, Kew Bull. 3: 143. 1948.

Distribution: Arunachal Pradesh; 2000–4000 m.

Pogonatherum P. Beauv.

Pogonatherum crinitum (Thunb.) Kunth, Enum. Pl. 1: 478. 1833. *Andropogon crinitus* Thunb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Pogonatherum paniceum (Lam.) Hack., Allg. Bot. Z. Syst. 12: 178. 1906. *Saccharum paniceum* Lam.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–1500 m.

Pogonatherum santapaui Sur, J. Bombay Nat. Hist. Soc. 73: 190. 1976.

Distribution: Uttarakhand.

Polypogon Desf.

Polypogon fugax Nees ex Steud., Syn. Pl. Glumac. 1: 184. 1854.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2500 m.

Polypogon monspeliensis (L.) Desf., Fl. Atlant. 1: 66. 1798. *Alopecurus monspeliensis* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1000–2000 m.

Polytoca R. Br.

Polytoca digitata (L.f.) Druce, Rep. Bot. Soc. Exch. Club Brit. Isles 1916: 641. 1917. *Apluda digitata* L.f.

Distribution: Sikkim.

Polytoca wallichiana (Nees ex Steud.) Benth., J. Linn. Soc., Bot. 19: 52. 1881.
Cyathorhachis wallichiana Nees ex Steud.

Distribution: Sikkim.

Polytrias Hack.

Polytrias indica (Houtt.) Veldkamp, Blumea 36: 180. 1991. *Phleum indicum* Houtt.

Distribution: Sikkim; 1000–2000 m.

Pseudechinolaena Stapf

Pseudechinolaena polystachya (Kunth) Stapf. Fl. Trop. Afr. 9: 495. 1919.
Echinolaena polystachya Kunth

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 800–1500 m.

Pseudobrachiaria Parl.

Pseudobrachiaria deflexa (Schumach.) Launert, Mitt. Bot. Staatssamml. München 8: 158. 1970. *Panicum deflexum* Schumach.

Distribution: Jammu & Kashmir.

Pseudodanthonia Bor & C.E. Hubb.

Pseudodanthonia himalaica (Hook.f.) Bor & C.E.Hubb., Kew Bull. 12: 427. 1957
publ. 1958. *Danthonia himalaica* Hook.f.

Distribution: Himachal Pradesh, Uttarakhand.

Pseudopogonatherum A.Camus.

Pseudopogonatherum contortum (Brongn.) A.Camus, Fl. Indo-Chine 7: 255. 1922.
Pogonatherum contortum Brongn.

Distribution: Uttarakhand.

Pseudoraphis Griff.

Pseudoraphis brunoniana (Griff.) Pilg., Notizbl. Bot. Gart. Berlin Dahlem 10: 209–210. 1928. *Panicum brunonianum* Griff.

Distribution: Sikkim; upto 2700 m.

Pseudoroegneria (Nevski) A. Love

Pseudoroegneria cognata (Hack.) Á.Löve, Feddes Repert. 95: 446. 1984.
Agropyron cognatum Hack.

Distribution: Jammu & Kashmir.

Pseudoroegneria stewartii (Melderis) Á.Löve, Feddes Repert. 95: 447. 1984.
Agropyron stewartii Melderis

Distribution: Jammu & Kashmir.

Pseudosorghum A. Camus

Pseudosorghum fasciculare (Roxb.) A.Camus, Bull. Mus. Natl. Hist. Nat. 26: 662. 1920. *Andropogon fascicularis* Roxb.

Distribution: Sikkim, Uttarakhand.

Pseudostachyum Munro

Pseudostachyum polymorphum Munro, Trans. Linn. Soc. London 26: 142. 1868.
Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1000 to 1500 m.

Ptilagrostis Griseb.

Ptilagrostis yadongensis Keng f. & J.S.Tang, J. S. W. Agric. Univ. 4: 44. 1985.
Distribution: Sikkim.

Puccinellia Parl.

Puccinellia distans (Jacq.) Parl., Fl. Ital. 1: 367. 1850. *Poa distans* Jacq.
Distribution: Jammu & Kashmir.

Puccinellia himalaica Tzvelev, Bot. Mater.Gerb. Bot. Inst. Komarova Akad. Nauk S.S.S.R. 17: 66. 1955.

Distribution: Himachal Pradesh, Jammu & Kashmir..

Puccinellia kashmiriana Bor, Kew Bull. 8: 270. 1953.

Distribution: Himachal Pradesh, Jammu & Kashmir..

Puccinellia ladakhensis (H.Hartmann) Dickore, Stapfia 39: 182. 1995. *Poa ladakhensis* H.Hartmann

Distribution: Jammu & Kashmir.

Puccinellia minuta Bor, Nytt Mag. Bot. 1: 19. 1952.

Distribution: Jammu & Kashmir.

Puccinellia stapfiana R.R.Stewart, Brittonia 5: 418. 1945.P

Distribution: Jammu & Kashmir.

Puccinellia tenuiflora (Griseb.) Scribn. & Merr., Contr. U. S. Natl. Herb. 13: 78. 1910. *Atropis tenuiflora* Griseb.

Distribution: Jammu & Kashmir.

Puccinellia thomsonii (Stapf) R.R.Stewart, Brittonia 5: 418. 1945. *Glyceria thomsonii* Stapf

Distribution: Uttarakhand.

Pycnospora R. Br. ex Wight & Arn.

Pycnospora lutescens (Poir.) Schindl., J. Bot. 64(762): 145. 1926. *Hedysarum lutescens* Poir.

Distribution: Uttarakhand.

Rostraria Trinn.

Rostraria clarkeana (Domin) Holub, Folia Geobot. Phytotax. 9: 271. 1974. *Koeleria clarkeana* Domin

Distribution: Jammu & Kashmir.

Rostraria pumila (Desf.) Tzvelev, Novosti Sist. Vyssh. Rast. 7: 48. 1970 publ. 1971. *Avena pumila* Desf.

Distribution: Himachal Pradesh.

Rottboellia L.f.

Rottboellia cochinchinensis (Lour.) Clayton, Kew Bull. 35: 817 1981. *Stegosia cochinchinensis* Lour.

Distribution: Sikkim, Uttarakhand; 300–900 m.

Saccharum L.

Saccharum arundinaceum Retz., Observ. Bot. 4: 14. 1786.

Distribution: Arunachal Pradesh, Uttarakhand, West Bengal (Darjeeling); 500–1000 m.

Saccharum bengalense Retz., Observ. Bot. 5: 16. 1789.

Distribution: Himachal Pradesh, Uttarakhand; 500–1000 m.

Saccharum filifolium Steud., Syn. Pl. Glumac. 1: 409. 1854.

Distribution: Himachal Pradesh, Uttarakhand.

Saccharum griffithii Munro ex Boiss., Fl. Orient. 5: 453. 1884.

Distribution: Arunachal Pradesh.

Saccharum longisetosum (Andersson) V.Naray. ex Bor, Fl. Assam 5 (App. 1): 461. 1940. *Erianthus longisetosus* Andersson

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1000 m.

Saccharum narenga (Nees ex Steud.) Hack., Monogr. Phan. 6: 19. 889. *Eriochrysis narenga* Nees ex Steud.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); upto 1000 m.

Saccharum officinarum L., Sp. Pl. 54. 1753.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand; upto 1000 m.

Saccharum procerum Roxb., Fl. Ind. 1: 243. 1820.

Distribution: Arunachal Pradesh, Sikkim; upto 1000 m.

Saccharum ravennae (L.) L., Syst. Veg. ed. 13 2: 88. 1774. *Andropogon ravennae* L.

Distribution: Himachal Pradesh, Uttarakhand.

Saccharum rufipilum Steud., Syn. Pl. Glumac. 1: 409. 1854.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 1220–2400 m.

Saccharum sikkimense (Hook.f.) V.Naray. ex Bor, Fl. Assam 5 (App. 1): 462. 1940. *Erianthus sikkimensis* Hook.f.

Distribution: Sikkim; 1830–2900 m.

Saccharum spontaneum L., Mant. Pl. 2: 183. 1771.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 300–1000 m.

Saccharum wardii (Bor) Bor ex Cope, Kew Bull.35: 702. 1980. *Erianthus wardii* Bor

Distribution: Arunachal Pradesh; 500–1200 m.

Sacciolepis Nash

Sacciolepis indica (L.) Chase, Proc. Biol. Soc. Wash. 21: 8. 1908. *Aira indica* L.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1000 m

Sacciolepis interrupta (Willd.) Stapf. Fl. Trop. Afr. 9: 757. 1920. *Panicum interruptum* Willd.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1500–2000 m.

Sacciolepis myosuroides (R.Br.) A.Camus, Fl. Indo Chine 7: 460. 1922. *Panicum myosuroides* R.Br.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand.

Sarocalamus Stapleton

Sarocalamus racemosus (Munro) Stapleton, Novon 14: 347. 2004. *Arundinaria racemosa* Munro

Distribution: Arunachal Pradesh, Sikkim.

Sarocalamus faberi (Rendle) Stapleton, Novon 14: 348. 2004. *Arundinaria faberi* Rendle

Distribution: Arunachal Pradesh.

Schismus P.Beau.

Schismus arabicus Nees, Fl. Afr. Austral. III. 422. 1841.

Distribution: Jammu & Kashmir.

Schismus barbatus (L.) Thell., Bull. Herb. Boissier II, 7: 391. 1907. *Festuca barbata* L.

Distribution: Jammu & Kashmir.

Schizachyrium Nees

Schizachyrium brevifolium (Sw.) Buse, Pl. Jungh. 359. 1854. *Andropogon brevifolius* Sw.

Distribution: Sikkim, Uttarakhand, West Bengal (Darjeeling); 750–2700 m.

Schizachyrium delavayi (Hack.) Bor, Indian Forest Rec., Bot. n.s., 1: 95. 1938. *Andropogon delavayi* Hack.

Distribution: Arunachal Pradesh, Sikkim; 1000–2500 m.

Schizachyrium exile (Hochst.) Pilg., Bot. Jahrb. Syst. 54: 284. 1917. *Andropogon exilis* Hochst.

Distribution: Uttarakhand.

Schizachyrium impressum (Hack.) A.Camus, Ann. Soc. Linn. Lyon n.s., 70: 91. 1924. *Andropogon impressus* Hack.

Distribution: Jammu & Kashmir.

Schizostachyum Nees

Schizostachyum dullooa (Gamble) R.B.Majumdar, Fl. Ind. Enumerat. Monocot. 281. 1989. *Teinostachyum dullooa* Gamble

Distribution: West Bengal (Darjeeling); ca. 700 m. (Plate 339a)

Schizostachyum gracile (Munro) Holttum, Kew Bull. 11: 206. 1956. *Melocanna gracilis* Munro

Distribution: Arunachal Pradesh; 1500–2000 m.

Schizostachyum latifolium Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 117. 1896.

Distribution: Arunachal Pradesh; 2000–2500 m.

Schizostachyum seshagirianum R.B.Majumdar, Fl. Ind. Enumerat. - Monocot. 282. 1989.

Distribution: Arunachal Pradesh.

Sclerochloa P.Beauv.

Sclerochloa dura (L.) P.Beauv., Ess. Agrostogr. 98. 1812. *Cynosurus durus* L.

Distribution: Jammu & Kashmir.

Sclerostachya (Anderson ex Hack.) A.Camus

Sclerostachya fusca (Roxb.) A.Camus, Fl. Indo-Chine 7: 243. 1922. *Saccharum fuscum* Roxb.

Distribution: Arunachal Pradesh, Uttarakhand.

Secale L.

Secale cereale L., Sp. Pl. 84. 1753.

Distribution: Himachal Pradesh, Uttarakhand; 1500–1800 m.

Secale segetale (Zhuk.) Roshev., Trudy Bot. Inst. Akad. Nauk S.S.S.R., Ser. 1, Fl. Sist. Vyssh. Rast. 6: 143. 1947. *Secale cereale* subsp. *segetale* Zhuk.

Distribution: Jammu & Kashmir.

Sehima Forssk.

Sehima nervosum (Rottler) Stapf, Fl. Trop. Afr. 9: 36. 1917. *Andropogon nervosus* Rottler

Distribution: Uttarakhand.

Sehima notatum (Hack.) A.Camus, Bull. Mus. Natl. Hist. Nat. 27: 373. 1921. *Ischaemum notatum* Hack.

Distribution: Uttarakhand.

Setaria P.Beauv.

Setaria barbata (Lam.) Kunth, Rçvis. Gramin. 1: 47. 1829. *Panicum barbatum* Lam.

Distribution: Sikkim, Uttarkhand; 1500–1800 m.

Setaria flavida (Retz.) Veldkamp, Blumea 39: 376. 1994. *Panicum flavidum* Retz.

Distribution: Sikkim, Uttarkhand.

Setaria forbesiana (Nees ex Steud.) Hook.f., Fl. Brit. India 7: 81. 1896. *Panicum forbesianum* Nees ex Steud.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1800 m.

Setaria geniculata P.Beauv., Ess. Agrostogr. 51. 1812.

Distribution: Himachal Pradesh, Uttarkhand.

Setaria homonyma (Steud.) Chiov., Nuovo Giorn. Bot. Ital. n.s., 26: 78. 1919. *Panicum homonymum* Steud.

Distribution: Himachal Pradesh, Uttarkhand; 500–1000 m.

Setaria homonyma var. **depauperata** Babu, Herb. Fl. Dehra Dun 642. 1977.

Distribution: Uttarkhand.

Setaria intermedia Roem. & Schult., Syst. Veg. 2: 489. 1817.

Distribution: Himachal Pradesh, Sikkim; 1500–1800 m.

Setaria italica (L.) P.Beauv., Ess. Agrostogr. 51. 1812. *Panicum italicum* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–800 m.

Setaria megaphylla T.Durand & Schinz Consp. Fl. Afr. 5: 773. 1894.

Distribution: Uttarakhand.

Setaria palmifolia (J.Koenig) Stapf., J. Linn. Soc., Bot. 42: 186. 1914. *Panicum palmifolium* J. Koenig

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1000 m.

Setaria paniculifera (Steud.) E.Fourn., Mexic. Pl. 2: 42. 1886. *Panicum paniculiferum* Steud.

Distribution: Himachal Pradesh, Uttarkhand.

Setaria parviflora (Poir.) M.Kerguelen, Lejeunia 120: 161. 1987. *Cenchrus parviflorus* Poir.

Distribution: Himachal Pradesh, Uttarkhand; 500–1000 m.

Setaria plicata (Lam.) T.Cooke, Fl. Bombay 2: 919. 1908. *Panicum plicatum* Lam.

Distribution: Arunachal Pradesh, Sikkim; 500–1000 m.

Setaria pumila (Poir.) Roem. & Schult., Syst. Veg. 2: 891. 1817. *Panicum pumilum* Poir.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarkhand, West Bengal (Darjeeling); 500–1500 m.

Setaria sphacelata (Schumach.) Stapf & C.E. Hubb. ex M.B. Moss, Kew Bull. 1929(6): 195. 1929. *Panicum sphacelatum* Schumach.

Distribution: Uttarakhand.

Setaria verticillata (L.) P.Beauv., Ess. Agrostogr. 51. 1812. *Panicum verticillatum* L.

Distribution: Himachal Pradesh, Sikkim; upto 1800 m.

Setaria viridis (L.) P.Beauv., Ess. Agrostogr. 51. 1812. *Panicum viride* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim; upto 3650 m.

Sinarundinaria Nakai

Sinarundinaria arunachalensis H.B.Naithani, Indian Forester 117: 78. 1991.

Distribution: Arunachal Pradesh.

Sinochasea Keng

Sinochasea trigyna Keng, J. Wash. Acad. Sci. 48: 115. 1958.

Distribution: Sikkim, 3810–5240 m.

Sorghum Moench

Sorghum arundinaceum (Desv.) Stapf, Fl. Trop. Afr. 9: 114. 1917. *Rhaphis arundinacea* Desv.

Distribution: Uttarakhand.

Sorghum bicolor (L.) Moench, Methodus 207. 1794. *Holcus bicolor* L.

Distribution: Himachal Pradesh, Sikkim, Uttarkhand; 1500–1800 m.

Sorghum cernuum (Ard.) Host, Icon. Descr. Gram. Austriac. 4: 2. 1809. *Holcus cernuus* Ard.

Distribution: Uttarakhand.

Sorghum halepense (L.) Pers., Syn. Pl. 1: 101. 1805. *Holcus halepensis* L.

Distribution: Himachal Pradesh, Uttarkhand; upto 800 m.

Sorghum miliaceum (Roxb.) Snowden, J. Linn. Soc., Bot. 55: 205. 1955. *Andropogon miliaceus* Roxb.

Distribution: Himachal Pradesh; upto 800 m.

Sorghum miliiforme var. **sikkimense** Snowden, Bull. Misc. Inform. Kew 1935: 237. 1935.

Distribution: Sikkim.

Sorghum nitidum (Vahl) Pers., Syn. Pl. 1: 101. 1805. *Holcus nitidus* Vahl

Distribution: Himachal Pradesh; upto 800 m.

Sorghum roxburghii var. **hians** Stapf, Fl. Trop. Afr. 9: 127. 1917.

Distribution: Uttarakhand.

Spodiopogon Trin.

Spodiopogon cotulifer (Thunb.) Hack., Monogr. Phan. 6: 187. 1889. *Andropogon cotulifer* Thunb.

Distribution: Arunachal Pradesh.

Spodiopogon dubius Hack., Monogr. Phan. 6: 187. 1889.

Distribution: Himachal Pradesh.

Sporobolus R. Br.

Sporobolus africanus (Poir.) Robyns & Tournay, Bull. Jard. Bot. État 25: 242. 1955. *Agrostis africana* Poir.

Distribution: Uttarakhand.

Sporobolus coromandelianus (Retz.) Kunth, (Retz.) Kunth Rçvis. Gramin. 1: 68. 1829. *Agrostis coromandeliana* Retz.

Distribution: Uttarakhand.

Sporobolus diandrus (Retz.) P.Beauv., Ess. Agrostogr. 26. 1812. *Agrostis diandra* Retz.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 2500 m.

Sporobolus fertilis (Steud.) Clayton, Kew Bull. 19: 291. 1965. *Agrostis fertilis* Steud.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Sporobolus helvolus (Trin.) T.Durand & Schinz, Consp. Fl. Afric. 5: 820. 1894. *Vilfa helvola* Trin.

Distribution: Himachal Pradesh.

Sporobolus piliferus (Trin.) Kunth, Enum. Pl. 1: 211. 1833. *Vilfa pilifera* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Sporobolus spicatus Kunth, Rçvis. Gramin. 1: 67. 1829.

Distribution: Uttarakhand.

Sporobolus tenuissimus (Schrank.) Kuntze, Revis. Gen. Pl. 3(2): 369. 1898. *Panicum tenuissimum* Mart. ex Schrank

Distribution: Uttarakhand.

Sporobolus tetragonus Bor, Kew Bull. 4: 251. 1949.

Distribution: Uttarakhand.

Stapletonia P.Singh, S.S.Dash & P.Kumari

Stapletonia arunachalensis (H.B.Naithani) P.Singh, S.S.Dash & P.Kumari, Nelumbo 51: 241. 2009. *Schizostachyum arunachalensis* H.B.Naithani

Distribution: Arunachal Pradesh; 300 to 700 m.

Stipa L.

Stipa arabica Trin. & Rupr., Sp. Gram. Stip. 77. 1872.

Distribution: Himachal Pradesh, Jammu & Kashmir; upto 4100 m.

Stipa breviflora Griseb., Nachr. Königl. Ges. Wiss. Georg-Augusts-Univ. 3: 82. 1868.

Distribution: Jammu & Kashmir.

Stipa bungeana Trin., Enum. Pl. China Bor. 70. 1833.

Distribution: Sikkim.

Stipa capensis Thunb., Prodr. Pl. Cap. 19 1794.

Distribution: Sikkim.

Stipa capillacea Keng, Sunyatsenia 6: 100. 1941.

Distribution: Sikkim; 3300–5270 m.

Stipa capillata L., Sp. Pl. ed. 2. 116. 1762.

Distribution: Himachal Pradesh; 4500–5500 m.

Stipa caragana Trin., Mém. Acad. Imp. Sci. St.-Pétersbourg, Sér. 6, Sci. Math. 1: 74. 1831.

Distribution: Jammu & Kashmir.

Stipa caucasica Schmalh., Ber. Deutsch Bot. Ges. 10: 293. 1892.

Distribution: Himachal Pradesh, Jammu & Kashmir; upto 3700 m.

Stipa chitralensis Bor, Kew Bull. 9: 500. 1954.

Distribution: Jammu & Kashmir.

Stipa concinna Hook.f., Fl. Brit. India 7: 230 1896.

Distribution: Himachal Pradesh, Sikkim; upto 1500 m.

Stipa consanguinea Trin. & Rupr., Sp. Gram. Stipac. 78. 1842.

Distribution: Sikkim; upto 1500 m.

Stipa duthiei Hook.f., Fl. Brit. India 7: 232. 1896.

Distribution: Sikkim; 4270–4880 m.

Stipa himalaica Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada R.S.F.S.R. 5: 11. 1924.

Distribution: Himachal Pradesh; upto 1500 m.

Stipa hookeri Stapf. J. Linn. Soc., Bot. 30: 120. 1894.

Distribution: Sikkim.

Stipa jacquemontii Jaub. & Spach, Ill. Pl. Orient. 4: 60. 1851.

Distribution: Himachal Pradesh, Uttarakhand; upto 1500 m.

Stipa kirghisorum P.A.Smirn., Repert. Spec. Nov. Regni Veg. 21: 232. 1925.

Distribution: Jammu & Kashmir.

Stipa koelzii R.R.Stewart, Brittonia 5: 441. 1945.

Distribution: Sikkim.

Stipa milleri Noltie, Edinburgh J. Bot. 56: 288. 1999.

Distribution: Sikkim; 4270–4555 m.

Stipa mongholica Turcz. ex Trin., Bull. Sci. Acad. Imp. Sci. Saint Pétersbourg 1: 67. 1836.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand.

Stipa orientalis Trin. ex Ledeb., Fl. Altaic. 1: 83. 1829.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand

Stipa purpurea Griseb., Nachr. Königl. Ges. Wiss. Georg Augusts Univ. 3: 82. 1868.
Distribution: Sikkim; 4800–5800 m.

Stipa regeliana Hack., Sitzungsber. Kaiserl. Akad. Wiss., Wien, Math.-Naturwiss. Cl., Abt. 1 89: 130. 1884.
Distribution: Jammu & Kashmir.

Stipa roborowskyi Roshev., Bot. Mater. Gerb. Glavn. Bot. Sada R.S.F.S.R. 1(6): 1. 1920.
Distribution: Sikkim; ca. 5310 m.

Stipa rohmooiana Noltie, Edinburgh J. Bot. 56: 287. 1999.
Distribution: Sikkim; 4570–4880 m.

Stipa roylei (Nees) Duthie, List Grasses N.W. India 27. 1883. *Orthoraphium roylei* Nees
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 3000–3700 m

Stipa sibirica (L.) Lam., Tabl. Encycl. 1: 158. 1791. *Avena sibirica* L.
Distribution: Himachal Pradesh.

Stipa splendens Trin., Neue Entd. 2: 54. 1821.
Distribution: Jammu & Kashmir.

Stipa subsessiliflora (Rupr.) Roshev., Izv. Imp. Bot. Sada Petra Velikago 14 (Suppl. 2): 50. 1915. *Lasiagrostis subsessiliflora* Rupr.
Distribution: Jammu & Kashmir.

Stipa trichoides P.A.Smirn., Repert. Spec. Nov. Regni Veg. 21: 233. 1925.
Distribution: Jammu & Kashmir.

Stipa turkestanica Hack., Trudy Imp. S.-Peterburgsk. Bot. Sada 26: 59. 1906.
Distribution: Jammu & Kashmir.

Stipagrostis Nees

Stipagrostis obtusa (Delile) Nees, Linnaea 7: 293. 1832. *Aristida obtusa* Delile
Distribution: Jammu & Kashmir.

Stipagrostis plumosa Munro ex T.Anderson, J. Proc. Linn. Soc., Bot. 5(Suppl. 1): 40. 1860.
Distribution: Jammu & Kashmir.

Teinostachyum C.F.C. Fich.

Teinostachyum griffithii Munro, Trans. Linn. Soc. London 26: 143. 1868.
Distribution: Arunachal Pradesh.

Tenaxia N.P.Barker & H.P.Linder

Tenaxia cachemyriana (Jaub. & Spach) N.P.Barker & H.P.Linder, Ann. Missouri Bot. Gard. 97: 352. 2010. *Danthonia cachemyriana* Jaub. & Spach
Distribution: Himachal Pradesh, Uttarakhand; upto 1500 m. (Plate 339b)

Tenaxia cumminsii (Hook.f.) N.P.Barker & H.P.Linder, Ann. Missouri Bot. Gard. 97: 352. 2010. *Danthonia cumminsii* Hook.f.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 500–1500 m.

Tetrapogon Desf.

Tetrapogon villosus Desf., Fl. Atlant. 2: 388. 1799.

Distribution: Arunachal Pradesh; upto 1500 m.

Thamnocalamus Munro

Thamnocalamus aristatus (Gamble) E.G.Camus, Bambusées 54. 1913.

Arundinaria aristata Gamble

Distribution: Arunachal Pradesh, Sikkim.

Thamnocalamus arunachalensis Naithani, Indian For. 141(5): 588. 2015.

Distribution: Arunachal Pradesh; 1800 m.

Thamnocalamus spathiflorus (Trin.) Munro, Trans. Linn. Soc. London 26: 34.

1868. *Arundinaria spathiflora* Trin.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 2200–3300 m.

Themeda Forssk.

Themeda anathera (Nees ex Steud.) Hack., Monogr. Phan.6: 669. 1889. *Anthistiria anathera* Nees ex Steud.

Distribution: Himachal Pradesh.

Themeda arundinacea (Roxb.) A.Camus, Fl. Indo-Chine 7: 363. 1922. *Anthistiria arundinacea* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand; upto 1000 m.

Themeda caudata (Nees ex Hook. & Arn.) A.Camus, Fl. Indo-Chine 7: 364. 1922.

Anthistiria caudata Nees ex Hook. & Arn.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1000 m.

Themeda dacruzii Birar, J. Bombay Nat. Hist. Soc. 70: 346. 1974.

Distribution: Uttarkhand.

Themeda hookeri (Griseb.) A.Camus, Bull. Mus. Natl. Hist. Nat. 26: 425. 1920.

Anthistiria hookeri Griseb.

Distribution: Sikkim; upto 1000 m.

Themeda intermedia (Hack.) Bor, Indian For. Rec., Bot. n.s., 1: 96. 1938. *T. gigantea* Hack. var. *intermedia* Hack.

Distribution: Arunachal Pradesh.

Distribution: Arunachal Pradesh.

Themeda laxa (Andersson) A.Camus, Bull. Mus. Natl. Hist. Nat. 26: 423. 1920.

Anthistiria laxa Andersson

Distribution: Uttarkhand.

Themeda quadrivalvis (L.) Kuntze, Revis. Gen. Pl. 2: 793. 1891. *Andropogon quadrivalvis* L.

Distribution: Sikkim, Uttarkhand; upto 2000 m.

Themeda strigosa (Ham. ex Hook.f.) A.Camus, Bull. Mus. Natl. Hist. Nat. 26: 423. 1920.

Distribution: Uttarkhand.

Themeda triandra Forssk., Fl. Aegypt. Arab. 178. 1775.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand; upto 2000 m.

Themeda villosa (Lam.) A.Camus, Fl. Indo-Chine 7: 364. 1922. *Anthistiria villosa* Lam.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); upto 2200 m.

Themeda villosa var. **caudata** (Nees) Veldkamp, Blumea 61(1): 36. 2016.

Distribution: Sikkim, Uttarkhand.

Thinopyrum A.Love

Thinopyrum intermedium (Host) Barkworth & D.R.Dewey, Amer. J. Bot. 72: 772. 1985.

Distribution: Jammu & Kashmir.

Thyrsostachys Gamble

Thyrsostachys oliveri Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 58. 1896.

Distribution: Arunachal Pradesh, Uttarkhand.

Thyrsostachys siamensis Gamble, Ann. Roy. Bot. Gard. (Calcutta) 7: 59. 1896.

Distribution: Uttarkhand.

Thysanolaena Nees

Thysanolaena latifolia (Roxb. ex Hornem.) Honda, J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot. 3: 312. 1930. *Melica latifolia* Roxb. ex Hornem.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); 500–1700 m.

Thysanolaena maxima (Roxb.) Kuntze, Revis. Gen. Pl. 2: 784. 1891. *Agrostis maxima* Roxb.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling).

Tragus Haller.

Tragus mongolorum Ohwi, Acta Phytotax. Geobot. 10: 268. 1941.

Distribution: Uttarakhand.

Tragus racemosus (L.) All., Fl. Pedem. 2: 241. 1785. *Cenchrus racemosus* L.

Distribution: Himachal Pradesh.

Tripogon Roem. & Schult.**Tripogon bromoides** Roth, Syst. Veg. 2: 600 1817.

Distribution: Uttarakhand.

Tripogon capillatus Jaub. & Spach, Ill. Pl. Orient. 4: 47, pl. 332. 1850.

Distribution: Uttarakhand.

Tripogon filiformis Nees ex Steud., Syn. Pl. Glumac. 1: 301. 1854.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 1700 m.

Tripogon purpurascens Duthie, Ann. Roy. Bot. Gard. (Calcutta) 9: 74. 1901. *T. hookerianus* Bor

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 3700 m.

Tripogon trifidus Munro ex Stapf, Fl. Brit. India 7: 286. 1896.

Distribution: Himachal Pradesh, Sikkim, Uttarakhand; 1800–1950 m.

Trisetaria Forsk.**Trisetaria loeflingiana** (L.) Paunero, Anales Jard. Bot. Madrid 9: 527. 1950. *Avena loeflingiana* L.

Distribution: Himalaya.

Trisetum Pers.**Trisetum aeneum** (Hook.f.) R.R. Stewart, Brittonia 5: 431. 1945. *Avena aenea* Hook.f.

Distribution: Himachal Pradesh, Uttarakhand; 3600–4800 m.

Trisetum clarkei (Hook.f.) R.R. Stewart, Brittonia 5: 431. 1945. *Avena clarkei* Hook.f.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; upto 4100 m.

Trisetum flavescens (L.) P.Beauv., Ess. Agrostogr. 88. 1812. *Avena flavescens* L.

Distribution: Sikkim, 2590–3350 m.

Trisetum micans (Hook.f.) Bor, Grass. Burma, Ceylon, India & Pakistan 448. 1960. *Avena micans* Hook.f.

Distribution: Himachal Pradesh, Uttarakhand; 3600–4800 m.

Trisetum scitulum Bor, Kew Bull. 11: 212. 1956.

Distribution: Sikkim, Uttarakhand, 3600–4250 m.

Trisetum sikkimense (Hook.f.) Chrtak, Acta Univ. Carol., Biol. 1967: 104. 1968. *Avena sikkimensis* Hook.f.

Distribution: Sikkim.

Trisetum spicatum (L.) K.Richt., Pl. Eur. 1: 59. 1890. *Aira spicata* L.

Distribution: Himachal Pradesh, Sikkim, Jammu & Kashmir, Uttarakhand; 3600–4800 m.

Triticum L.**Triticum aestivum** L., Sp. Pl. 85. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); upto 500 m.

Triticum compactum Host., Icon. Descr. Gram. Austriac. 4: 4 1809.

Distribution: Uttarakhand.

Triticum dicoccum Schübl. Diss. Char. Descr. Cereal. 29. 1818.

Distribution: Uttarakhand.

Triticum durum Desf., Fl. Atlant. 1: 114 1798.

Distribution: Uttarakhand.

Triticum sphaerococcum Percival Wheat Plant 157, 321. 1921.

Distribution: Uttarakhand.

Triticum polonicum L., Sp. Pl. ed. 2 127. 1762.

Distribution: Uttarakhand.

Triticum sphaerococcum Percival, Wheat Pl. 157, 321. 1921.

Distribution: Uttarakhand.

Triticum turgidum L., Sp. Pl. 86 1753.

Distribution: Uttarakhand.

Urochloa P.Beauv.**Urochloa panicoides** P. Beauv., Ess. Agrostogr. 52. 1812.

Distribution: Himachal Pradesh; upto 500 m.

Vetiveria Lem.-Lis**Vetiveria zizanioides** (L.) Nash, Fl. S.E. U.S. 67. 1903. *Phalaris zizanioides* L.

Distribution: Sikkim, Uttarakhand.

Vulpia C.C. Gmel.**Vulpia ciliata** Dumort., Observ. Gramin. Belg. 100. 1824.

Distribution: Himachal Pradesh, Uttarakhand.

Vulpia myuros (L.) C.C.Gmel., Fl. Bad. 1: 8. 1805. *Festuca myuros* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand; 1500–3930 m.

Vulpia octoflora (Walter) Rydb., Bull. Torrey Bot. Club 36: 538. 1909. *Festuca octoflora* Walter

Distribution: Uttarakhand.

Vulpia unilateralis (L.) Stace, Bot. J. Linn. Soc. 76: 350. 1978. *Triticum unilaterale* L.

Distribution: Jammu & Kashmir.

Yushania Kengf.

Yushania anceps (Mitford) W.C. Lin, Bull. Taiwan Forest Res. Inst. 248: 9. 1974.
Arundinaria anceps Mitford
Distribution: Uttarakhand.

Yushania elegans (Kurz) R.B.Majumdar, Fl. Ind. Enumerat. - Monocot. 282. 1989.
Arundinaria elegans Kurz
Distribution: Arunachal Pradesh.

Yushania hirsuta (Munro) R.B.Majumdar, Fl. Ind. Enumerat. Monocot. 282. 1989.
Arundinaria hirsuta Munro
Distribution: Sikkim; 1800–2800 m.

Yushania maling (Gamble) R.B.Majumdar & Karthik., Fl. Ind. Enumerat. Monocot. 283. 1989. *Arundinaria maling* Gamble
Distribution: Sikkim, West Bengal (Darjeeling); 1800–3600 m.

Yushania microphylla (Munro) R.B.Majumdar, Fl. Ind. Enumerat. Monocot. 283. 1989. *Arundinaria microphylla* Munro
Distribution: Sikkim; 1800–3600 m.

Yushania pantlingii (Gamble) R.B.Majumdar, Fl. Ind. Enumerat. Monocot. 283. 1989. *Arundinaria pantlingii* Gamble
Distribution: Arunachal Pradesh, Sikkim; 1800–2300 m.

Yushania yadongensis T.P.Yi, J. Bamboo Res. 4(2): 33. 1985. Distribution: Sikkim; 2300–3700 m.

Zea L.

Zea mays L., Sp. Pl. 971. 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarkhand, West Bengal (Darjeeling); upto 3000 m.

Zoysia Willd.

Zoysia matrella (L.) Merr. var. *pacifica* Goudswaard Blumea 26: 172–174. 1980.
Distribution: Uttarakhand.

Zoysia matrella var. **pacifica** Goudsw., Blumea 26: 172. 1980.
Distribution: Uttarakhand.

PONTEDERIACEAE

(1 genera; 3 taxa)

Pontederia L.

Pontederia crassipes Mart., Nov. Gen. Sp. Pl. 1: 9. 1824.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 300–1800 m.

Pontederia hastata L., Sp. Pl. 288 1753.
Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 100–1200 m.

Pontederia vaginalis Burm.f., Fl. Indica 80. 1768.
Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1600 m.

POTAMOGETONACEAE

(3 genera; 24 taxa)

Potamogeton L.

Potamogeton alpinus Balb., Mem. Acad. Sc. Turin Ann. 10–11. Sci. Phys. Math. I: 329. 1804.

Distribution: Jammu & Kashmir.

Potamogeton berchtoldii Fieber, Oekon.-Techn. Fl. Böhm. reimpr. 2(1): 40. 1838.

Distribution: Sikkim.

Potamogeton crispus L. Sp. Pl. 126. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Potamogeton distinctus A.Benn., J. Bot. 42: 72. 1904.

Distribution: Arunachal Pradesh.

Potamogeton fluitans Roth, Tent. Fl. Germ. 1: 72. 1788.

Distribution: Jammu & Kashmir.

Potamogeton lucens L., Sp. Pl. 126. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Potamogeton malaianus Miq., Ill. Fl. Archip. Ind. 46. 1870.

Distribution: Jammu & Kashmir.

Potamogeton natans L., Sp. Pl. 126. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Potamogeton nodosus Poir., Lam. Encycl. Meth. Bot. suppl. 4: 535. 1816.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 1000–1500 m.

Potamogeton oblongus Viv., Fl. Ital. Fragm. 1(1): t. 2. 1808.

Distribution: Arunachal Pradesh.

Potamogeton octandrus Poir., Encycl. Meth. Bot. Suppl. 4: 517. 1816. *P. javanicus* Hassk.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 800–2000 m.

Potamogeton pectinatus L., Sp. Pl. 127. 1753.

Distribution: Himalaya.

Potamogeton perfoliatus L., Sp. Pl. 126. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Potamogeton polygonifolius Pourr., Mém. Acad. Sci. Toulouse 3: 325. 1788.

Distribution: Jammu & Kashmir.

Potamogeton pussilus L., Sp. Pl. 127. 1753.

Distribution: Jammu & Kashmir.

Potamogeton tepperi A.Benn., J. Bot. 25: 178. 1887.

Distribution: Jammu & Kashmir.

Potamogeton wrightii Morong, Bull. Torrey Bot. Club 13: 158 1886.

Distribution: Jammu & Kashmir.

Potamogeton zizii Mert. & W.D.J.Koch, Deutschl. Fl. 1: 845. 1823.

Distribution: Jammu & Kashmir.

Stuckenia Börner

Stuckenia amblyophylla (C.A.Mey.) Holub, Preslia 68: 364. 1997. *Potamogeton amblyophyllus* C.A.Mey.

Distribution: Jammu & Kashmir.

Stuckenia filiformis (Pers.) Börner, Fl. Deut. Volk. 713. 1912. *P. filiformis* Pers.

Distribution: Jammu & Kashmir, Sikkim; 3600–4600 m.

Stuckenia pectinata (L.) Börner, Fl. Deut. Volk. 713. 1912. *P. pectinatus* L.

Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand; 3600–5100 m.

Stuckenia pamirica (Baagøe) Z.Kaplan, Folia Geobot. 43: 194. 2008. *Potamogeton pamiricus* Baagøe

Distribution: Jammu & Kashmir.

Stuckenia vaginata (Turcz.) Holub, Folia Geobot. Phytotax. 18: 215. 1984. *Potamogeton vaginatus* Turcz.

Distribution: Jammu & Kashmir.

Zannichellia L.

Zannichellia palustris L., Sp. Pl. 969. 1753.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

SMILACACEAE

(2 genera; 26 taxa)

Heterosmilax Kunth

Heterosmilax japonica Kunth, Enum. Pl. 5: 250. 1850.

Distribution: Arunachal Pradesh, West Bengal (Darjeeling); 300–1200 m.

Smilax L.

Smilax arisanensis Hayata., J. Coll. Sci. Imp. Univ. Tokyo 30(1): 356. 1911.

Distribution: Arunachal Pradesh; 1200–1800 m.

Smilax aspera L., Sp. Pl. 1028. 1753.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1200–1800 m.

Smilax aspericaulis Wall. ex A.DC., Monogr. Phan. 1: 195. 1878.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1000 m.

Smilax davidiana A.DC., Monogr. Phan. 1: 104. 1878.

Distribution: Sikkim.

Smilax elegans Wall. ex Kunth, Enum. Pl. 5: 163. 1850. subsp. **elegans**.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1300–2000 m.

Smilax elegans Wall. ex Kunth subsp. **osmastonii** (F.T.Wang & Tang) Noltie, Edinburgh J. Bot. 51: 155. 1994. *S. osmastonii* F.T. Wang & Tang

Distribution: Sikkim, Uttarakhand; 1500–2100 m.

Smilax elegans Wall. ex Kunth var. **subrecta** Noltie, Edinburgh J. Bot. 51: 155. 1994.

Distribution: Arunachal Pradesh; 1500–1800 m.

Smilax ferox Wall. ex Kunth, Enum. Pl. 5: 251. 1850.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 1500–2400 m.

Smilax griffithii A. DC., Monogr. Phan. 1: 198. 1878.

Distribution: Arunachal Pradesh; 800–1500 m.

Smilax kingii Hook.f., Fl. Brit. India 6: 307. 1892.

Distribution: Sikkim.

Smilax lanceifolia Roxb. Fl. Ind. 3: 702. 1832.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–1800 m.

Smilax luzonensis C.Presl., Reliq. Haenk. 1: 131. 1827.

Distribution: Uttarakhand.

Smilax megacarpa A.DC., Monogr. Phan.1: 186. 1878.

Distribution: Arunachal Pradesh; 1200–1800 m.

Smilax menispermoidea A.DC. Monogr. Phan. 1: 108. 1878.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2150–4270 m.

Smilax minutiflora A.DC., Monogr. Phan. 1: 109. 1878.

Distribution: Sikkim, West Bengal (Darjeeling); 1800–3000 m.

Smilax munita S.C.Chen, Acta Phytotax. Sin. 34: 436. 1996.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2100–3000 m.

Smilax myrtilus A.DC., Monogr. Phan. 1: 106. 1878.

Distribution: Arunachal Pradesh.

Smilax ocreata A.DC., Monogr. Phan. 1: 191. 1878.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; 1200–1700 m.

Smilax orthoptera A.DC., Monogr. Phan. 1: 192. 1878.

Distribution: Sikkim, West Bengal (Darjeeling); 150–900 m.

Smilax ovalifolia Roxb. ex D.Don, Prodr. Fl. Nepal. 49. 1825.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 500–1000 m. **(Plate 340a)**

Smilax perfoliata Lour., Fl. Cochinch. 622. 1790.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 300–1800 m. **(Plate 340b)**

Smilax prolifera Roxb., Fl. Ind. ed. 1832 3: 795. 1832.

Distribution: Arunachal Pradesh, Sikkim.

Smilax quadrata A.DC., Monagr. Phan.1: 183. 1878.

Distribution: Arunachal Pradesh; 700–1800 m.

Smilax vaginata Decne., Voy. Bot. 4: 169, 1844.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand; 1800–2700 m.

Smilax wallichii Kunth., Enum. Pl. 5: 246. 1850.

Distribution: Sikkim, West Bengal (Darjeeling); 1200–1500 m.

Smilax wightii DC., Monogr. Phan. 1: 174. 1878.

Distribution: Uttarakhand.

Smilax zeylanica L., Sp. Pl. 1029. 1753.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand; upto 1500 m. **(Plate 355c)**

SPARGANIACEAE

(1 genera; 2 taxa)

Sparganium L.

Sparganium fallax Graebn., Pflanzenr. IV, 10: 15. 1900.

Distribution: Sikkim; 2670 m.

Sparganium stoloniferum (Buch.-Ham. ex Graebn.) Buch.-Ham. ex Juz., Fl. URSS 1: 219 1934.

Distribution: Himachal Pradesh, Jammu & Kashmir.

STEMONACEAE

(1 genus; 1 taxon)

Stemona Lour

Stemona tuberosa Lour., Fl. Cochinch. 404. 1790.

Distribution: Arunachal Pradesh.

TACCACEAE

(1 genus; 1 taxon)

Tacca J.R.Forst & G.Forst

Tacca integrifolia Ker-Gawl., Curtis Bot. Mag. 35, t. 1488. 1812.

Distribution: Arunachal Pradesh, Sikkim.

TRILLIACEAE

(1 genus; 3 taxa)

Trillium L.**Trillium govanianum** Wall. ex D. Don, Ill. Bot. Himal. Mts. 384. 1839.Distribution: Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2700–4000 m. (**Plate 308c**)**Trillium tschonoskii** Maxim., Bull. Acad. Imp. Sci. Saint-Petersbourg 29: 218. 1883. var. **tschonoskii**

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 2700–4000 m.

Trillium tschonoskii var. **himalaicum** H. Hara, J. Jap. Bot. 44: 373. 1969.

Distribution: Sikkim.

TYPHACEAE

(2 genera; 5 taxa)

Typha L.**Typha angustifolia** L., Sp. Pl. 971. 1753.

Distribution: Uttarakhand.

Typha domingensis Pers., Syn. Pl. 2: 532. 1807.

Distribution: Himachal Pradesh, Jammu & Kashmir, Uttarakhand.

Typha elephantina Roxb., Fl. Ind. 3: 566. 1832.

Distribution: Uttarakhand.

Typha laxmannii Lepech., Nova Act. Acad. Petrop. 12: 84, 335. t. 4. 1801.

Distribution: Jammu & Kashmir, Uttarakhand.

Typha orientalis C. Presl, Epimel. Bot. 239. 1851.

Distribution: Jammu & Kashmir.

XYRIDACEAE

(1 genus; 3 taxa)

Xyris Gronov.**Xyris capensis** Thunb. Prodr. Pl. Cap. 12. 1794.

Distribution: Sikkim; 1800–2700 m.

Xyris indica L., Sp. Pl. 42. 1753.

Distribution: Sikkim, West Bengal (Darjeeling).

Xyris pauciflora Willd., Phytographia 1: 2. 1794.

Distribution: Sikkim, West Bengal (Darjeeling); 305 m.

ZINGIBERACEAE

(20 genera; 116 taxa)

Alpinia L.**Alpinia calcarata** Roscoe, Trans. Linn. Soc. London 8: 347. 1807.

Distribution: Sikkim.

Alpinia conchigera Griff., Not. Pl. Asiat. 3: 424. 1851.

Distribution: Sikkim.

Alpinia galanga (L.) Willd., Sp. Pl. 1: 12. 1797. *Maranta galanga* L.

Distribution: Arunachal Pradesh.

Alpinia malaccensis (Burm.f.) Roscoe, Trans. Linn. Soc. London 8: 345. 1807.

Maranta malaccensis Burm.f.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1500 m.

(Plate 341a)

Alpinia manii Baker, l. Brit. India 6: 253. 1892.

Distribution: Sikkim.

Alpinia nigra (Gaertn.) Burt, Notes Roy. Bot. Gard. Edinburgh 35: 213. 1977.

Zingiber nigrum Gaertn.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 150–1000 m.

(Plate 341b)

Alpinia ovoidocarpa H.Dong & G.J.Xu, Guihaia 13: 328. 1993.

Distribution: Arunachal Pradesh.

Alpinia roxburghii Sweet, Hort. Brit. 390. 1826.

Distribution: Arunachal Pradesh, Sikkim; 300m

Alpinia zerumbet (Pers.) B.L.Burt & R.M.Sm., Notes Roy. Bot. Gard.

Edinburgh 31(2): 204. 1972.

Distribution: Arunachal Pradesh.

Amomum Roxb.

Amomum aromaticum Roxb., Fl. Ind. 1: 44. 1820.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 150–1500 m.

(Plate 342a)

Amomum dealbatum Roxb., Fl. Ind. 1: 42. 1820.

Distribution: Sikkim, West Bengal (Darjeeling); 150–1500 m

Amomum kingii Baker, Fl. Brit. India 6: 241. 1892. var. **kingii**

Distribution: Sikkim; 150–1500 m

Amomum kingii Baker var. **oblongum** V.P.Thomas & M.Sabu, Phytotaxa 220(1): 89. 2015.

Distribution: Sikkim; 1890 m.

Amomum koenigii J.F.Gmel., Syst. Nat. 2: 6. 1791.

Distribution: Arunachal Pradesh, Sikkim; 150–1500 m

Amomum maximum Roxb., Asiat. Res. 11: 344. 1810.

Distribution: Arunachal Pradesh, 500–1500 m.

Amomum nimkeyense V.P. Thomas & M.Sabu, Phytos 8: 100. 2012.

Distribution: Arunachal Pradesh.

Amomum riwathcii M. Sabu & Hareesh, Bot. Lett. 165: 223. 2018.

Distribution: Arunachal Pradesh.

Amomum sabuanum V.P.Thomas, Nissar & U.Gupta, Phytotaxa 159(2): 122. 2014.

Distribution: Arunachal Pradesh, Sikkim.

Amomum sericeum Roxb., Fl. Ind. 1: 45. 1820.

Distribution: Sikkim, upto 1000 m.

(Plate 342b)

Amomum subulatum Roxb., Fl. Ind. 1: 43. 1820.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1000 m

Boesenbergia Kuntze

Boesenbergia kingii Mood & L.M. Prince, Gard. Bull. Singapore 65: 76. 2013.

Distribution: Sikkim.

Boesenbergia longiflora (Wall.) Kuntze, Revis. Gen. Pl. 2: 685. 1891.

Gastrochilus longiflorus Wall.

Distribution: Sikkim, West Bengal (Darjeeling); 150–1000 m.

Boesenbergia rotunda (L.) Mansf., Kulturpflanze 6: 239. 1958. *Curcuma rotunda* L.

Distribution: Uttarakhand.

Caulokaempferia K.Larsen

Caulokaempferia arunchalensis (Bhaumik, S. Dey & Langhu) Sushil K. Singh.

Monolophus arunchalensis Bhaumik, S. Dey & Langhu.

Distribution: Arunachal Pradesh, Sikkim.

Caulokaempferia secunda (Wall.) K.Larsen, Bot. Tidsskr. 60: 170. 1964.

Kaempferia secunda Wall.

Distribution: Sikkim; 2500–3000 m.

(Plate 342c)

Caulokaempferia sikkimensis (King ex Baker) K. Larsen, Bot. Tidsskr. 60: 169.

1964. *Kaempferia sikkimensis* King ex Baker

Distribution: Sikkim, West Bengal (Darjeeling); 2500–3000 m.

Cautleya (Royle ex Benth & Hook.f.) Hook.f.

Cautleya gracilis (Sm.) Dandy, J. Bot. 70: 328. 1932. var. **gracilis**. *Roscoea gracilis* Sm.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–2500 m.

(Plate 343a)

Cautleya gracilis (Sm.) Dandy var. **robusta** (K.Schum.) Sanjappa, Fl. Ind. Enum.

Monocot. 291. 1989. *C. lutea* (Royle) Hook.f. var. *robusta* K.Schum.

Distribution: Arunachal Pradesh, Sikkim; 2500–3000 m.

Cautleya spicata (Sm.) Baker, Fl. Brit. India 6: 209. 1890. *Roscoea spicata* Sm.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 2500–3000 m.

(Plate 343b)

Curcuma L.**Curcuma amada** Roxb., *Asiat. Res.* 11: 341. 1810.

Distribution: Arunachal Pradesh, 200–1500 m.

Curcuma angustifolia Roxb., *Asiat. Res.* 11: 338. 1810.Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand; 1000–1500 m. **(Plate 343c)****Curcuma aromatica** Salisb., *Parad. Lond. t.* 96. 1808.Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 400–1500 m. **(Plate 343d)****Curcuma caesia** Roxb., *Asiat. Res.* 11: 334. 1810.

Distribution: Sikkim; 400–1500 m.

Curcuma ferruginea Roxb., *Asiat. Res.* 11: 336. 1810.

Distribution: Sikkim.

Curcuma involucrata (King ex Baker) Skornick., *Taxon* 64:369. 2015.*Kaempferia involucrata* King ex Baker

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1200 m.

Curcuma leucorrhiza Roxb., *Asiat. Res.* 11: 337. 1810.

Distribution: Sikkim.

Curcuma longa L., *Sp. Pl.* 2. 1753.

Distribution: Himalaya; 200–2000 m

Curcuma montana Roxb., *Pl. Coromandel* 2: 28. 1800.

Distribution: Arunachal Pradesh, 500–1500 m.

Curcuma rubescens Roxb., *Asiat. Res.* 11: 336. 1810.

Distribution: Arunachal Pradesh, 200–1000 m.

Curcuma zedoaria (Christm.) Roscoe, *Trans. Linn. Soc. London* 8: 354. 1807.*Amomum zedoaria* Christm.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 200–1500 m.

Elettaria Maton**Elettaria cardamomum** (L.) Maton, *Trans. Linn. Soc. London* 10: 254. 1811.*Amomum cardamomum* L.

Distribution: Uttarakhand.

Etingera Giseke**Etingera linguiformis** (Roxb.) R.M.Sm., *Notes Roy. Bot. Gard. Edinburgh* 43:1986. *Alpinia linguiformis* Roxb.Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 1200–1600 m. **(Plate 344a)****Etingera loroglossa** (Gagnep.) R.M.Sm., *Notes Roy. Bot. Gard. Edinburgh* 43:247. 1986. *Amomum loroglossum* Gagnep.

Distribution: Arunachal Pradesh.

Globba L.

Globba andersonii C.B.Clarke ex Baker, Fl. Brit. India 6: 202. 1890.

Distribution: Sikkim, West Bengal (Darjeeling); 500–1500 m.

Globba bracteolata Wall. ex Baker, Fl. Brit. India 6: 204. 1890.

Distribution: Sikkim.

Globba clarkei Baker, Fl. Brit. India 6: 210. 1890.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Globba macroclada Gagnep., Bull. Soc. Bot. France 50: 257. 1903.

Distribution: Sikkim, West Bengal (Darjeeling); 300–1520 m.

Globba multiflora Wall. ex Baker, Fl. Brit. India 6: 202. 1890.

Distribution: Arunachal Pradesh, Sikkim; 100–1500 m.

Globba orixensis Roxb., Asiat. Res. 11: 358. 1810.

Distribution: Arunachal Pradesh, Sikkim; 100–1500 m.

Globba pendula Roxb., Asiat. Res. 11: 359. 1810.

Distribution: Sikkim, 100–1500 m.

Globba racemosa Sm., Exot. Bot. 2: 115. 1806. var. **racemosa**

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1500 m.

Globba racemosa Sm. var. **hookeri** (C.B.Clarke ex Baker) S.Kumar, Fl. Sikkim

1: 127. 1996. *Globba hookeri* C.B.Clarke ex Baker

Distribution: Arunachal Pradesh, Sikkim; 1000–1500 m.

Globba sessiliflora Sims, Bot. Mag. 35: t. 1428. 1811.

Distribution: Uttarakhand.

Globba teesta S. Nirola & AP. Das, Pleione 9(2): 513-517. 2015.

Distribution: Arunachal Pradesh.

Hedychium J.Koenig

Hedychium aureum C.B.Clarke & H.Mann ex Baker, Fl. Brit. India 6: 229. 1892.

Distribution: Arunachal Pradesh, 1000–2000 m.

Hedychium calcaratum A.S.Rao & D.M.Verma, Bull. Bot. Surv. India 11: 120
1969 (1971).

Distribution: Arunachal Pradesh.

Hedychium coccineum Buch.-Ham. ex Sm., Cycl. 17: 5. 1811.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 400–2000 m.

Hedychium coronarium J.Koenig, Observ. Bot. 3: 73. 1783. \

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 200–1000 m.

Hedychium densiflorum Wall., Hooker's J. Bot. Kew Gard. Misc. 5: 368. 1853.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 600–2000 m.

(Plate 344b)

Hedychium elatum R.Br., Bot. Reg. 7: t. 526. 1821.

Distribution: Sikkim, West Bengal (Darjeeling); 1220–1880 m.

Hedychium ellipticum Buch.-Ham. ex Sm., Cycl. 16: 2. 1811.

Distribution: Sikkim, West Bengal (Darjeeling); 600–2000 m. **(Plate 345a)**

Hedychium flavescens Carey ex Roscoe, Monandr. Pl. Scitam. t. 50. 1824.

Distribution: Uttarakhand.

Hedychium gardnerianum Sheppard ex Ker Gawl., Bot. Reg. 9: t. 774. 1824.

Distribution: Arunachal Pradesh, Sikkim; 1000–1500 m.

Hedychium glaucum Roscoe, Monandr. Pl. Scitam. t. 53. 1824.

Distribution: Sikkim, West Bengal (Darjeeling); 610–2230 m.

Hedychium gomezianum Wall., Hooker's J. Bot. Kew Gard. Misc. 5: 368. 1853.

Distribution: Arunachal Pradesh, 600–1800 m.

Hedychium gracile Roxb., Fl. Ind. 1: 12. 1820.

Distribution: Arunachal Pradesh, Sikkim; 800–1800 m.

Hedychium gracillimum A.S.Rao & D.M.Verma, Bull. Bot. Surv. India 11: 124. 1969.

Distribution: Arunachal Pradesh; 800–1200 m.

Hedychium greenii W.W.Sm., Rec. Bot. Surv. India 4: 272. 1911.

Distribution: Sikkim. **(Plate 345b)**

Hedychium griffithianum Wall., Hooker's J. Bot. Kew Gard. Misc. 5: 369. 1853.

Distribution: Arunachal Pradesh, Sikkim.

Hedychium hookeri C.B.Clarke ex Baker, Fl. Brit. India 6: 230. 1892.

Distribution: Arunachal Pradesh.

Hedychium longipedunculatum Sastry & D.M.Verma, J. Bombay Nat. Hist. Soc. 65: 293. 1968.

Distribution: Arunachal Pradesh; 1000–2000 m. **(Plate 345c)**

Hedychium marginatum C.B.Clarke, J. Linn. Soc., Bot. 25: 75. 1889.

Distribution: Arunachal Pradesh; 1000–1500 m.

Hedychium radiatum A.S.Rao & Hajra, Bull. Bot. Surv. India 16: 163. 1974 (1977).

Distribution: Arunachal Pradesh; 800–1600 m.

Hedychium robustum A.S.Rao & Hajra, Bull. Bot. Surv. India 16: 166. 1974 (1977).

Distribution: Arunachal Pradesh; 900–1600 m.

Hedychium rubrum A.S.Rao & D.M.Verma, Bull. Bot. Surv. India 11: 126. 1969 (1971).

Distribution: Arunachal Pradesh. **(Plate 346a)**

Hedychium speciosum Wall., Fl. Ind. 1: 13. 1820.

Distribution: Arunachal Pradesh, Sikkim.

Hedychium spicatum Sm., Cycl. 17: 8. 1811.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 610–2630 m. (Plate 346b)

Hedychium stenopetalum Lodd., Bot. Cab. 20: t. 1902. 1833.

Distribution: Arunachal Pradesh; 150–1600 m. (Plate 346c)

Hedychium thyrsiforme Sm., Cycl. 17: 4. 1811.

Distribution: Arunachal Pradesh, Sikkim, Uttarakhand, West Bengal (Darjeeling); 200–1000 m. (Plate 347a)

Hedychium venustum Wight, Icon. Pl. Ind. Orient. t. 2012. 1853.

Distribution: Arunachal Pradesh; 200–1000 m.

Hedychium villosum Wall., Fl. Ind. 1: 12. 1820.

Distribution: Arunachal Pradesh; 200–1800 m.

Hedychium villosum var. **tenuiflorum** Wall. ex Baker, Fl. Brit. India 6: 229. 1892.

Distribution: Arunachal Pradesh.

Hedychium wardii C.E.C. Fisch., Bull. Misc. Inform. Kew 1936: 283. 1936.

Distribution: Arunachal Pradesh; 800–1500 m.

Hedychium ziroense V. Gowda & Ashokan, Phytos 117: 76. 2019.

Distribution: Arunachal Pradesh.

Hemiorchis Kurz

Hemiorchis pantlingii King, Ann. Roy. Bot. Gard. (Calcutta) 5: 163. 1894.

Distribution: Sikkim, West Bengal (Darjeeling); upto 1200 m. (Plate 321c)

Hornstedtia Retz.

Hornstedtia arunachalensis S. Tripathi & V. Prakash, Nordic J. Bot. 19: 329. 1999.

Distribution: Arunachal Pradesh.

Hornstedtia costata (Roxb.) K. Schum., Pflanzenr. IV, 46: 198. 1904. *Alpinia costata* Roxb.

Distribution: Sikkim.

Kaempferia L.

Kaempferia angustifolia Roscoe, Trans. Linn. Soc. London 8: 351. 1807.

Distribution: Sikkim.

Kaempferia rotunda L., Sp. Pl. 3. 1753.

Distribution: Himachal Pradesh, Sikkim, West Bengal (Darjeeling); 610 m.

(Plate 347b)

Larsenianthus W.J. Kress & Mood

Larsenianthus arunachalensis M. Sabu, Sanoj & Rajesh Kumar, PhytoKeys 1: 28. 2010.

Distribution: Arunachal Pradesh.

Larsenianthus arunachalensis var. **reticulatus** Tatum & A.K. Das, *Pleione* 10(2): 375 - 378. 2016.

Distribution: Arunachal Pradesh.

Larsenianthus assamensis S.Dey, Mood & S.Choudhury, *PhytoKeys* 1: 26. 2010.

Distribution: Arunachal Pradesh. (Plate 348a)

Larsenianthus careyanus (Benth.) W.J.Kress & Mood, *PhytoKeys* 1: 24. 2010.
Hitchenia careyana Benth.

Distribution: Arunachal Pradesh; 200–1200 m. (Plate 348b)

Meistera Giseke

Meistera fulviceps (Thwaites) Skornick. & M.F. Newman, *Taxon* 67: 26. 2018.

Amomum fulviceps Thwaites

Distribution: Arunachal Pradesh.

Monolophus Wall.

Monolophus arunachalensis Bhaumik, S. Dey & Langhu, *Kew Bulletin* 72:6. 2017.

Distribution: Arunachal Pradesh.

Parakaempferia A.S.Rao & D.M.Verma

Parakaempferia synantha A.S.Rao & D.M.Verma, *Bull. Bot. Surv. India* 11: 206. 1968 (publ. 1971).

Distribution: Arunachal Pradesh.

Roscoea Sm.

Roscoea alpina Royle, *Ill. Bot. Himal.Mts.* 361.1839.

Distribution: Arunachal Pradesh, Himachal Pradesh, Jammu & Kashmir, Sikkim, Uttarakhand, West Bengal (Darjeeling); 2400–3200 m.

Roscoea auriculata K.Schum., *Pflanzenr.* IV, 46: 118. 1904.

Distribution: Sikkim; 2400–3200 m.

Roscoea megalantha Tosh. Yoshida & Yangzom, *Edinburgh J. Bot.* 74. 256. 2017.

Distribution: Arunachal Pradesh.

Roscoea purpurea Sm., *Exot. Bot.* 2: 97. 1806.

Distribution: Arunachal Pradesh, Sikkim; 1000–3200 m. (Plate 341c)

Roscoea wardii Cowley, *Kew Bull.* 36: 768. 1982.

Distribution: Arunachal Pradesh, Himachal Pradesh, Uttarakhand.

Wurfbainia Giseke

Wurfbainia aromatica (Roxb.) Skornick & A.D.Poulsen, *Taxon* 67: 28. 2018.

Amomum aromaticum Roxb.

Distribution: Arunachal Pradesh.

Zingiber Mill.

Zingiber arunachalensis A.Joe, T.Jayakrishnan, Hareesh & M.Sabu., *Phytotaxa* 309(1): 95. 2017.

Distribution: Arunachal Pradesh.

Zingiber capitatum Roxb., *Asiat. Res.* 11: 348. 1810.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 100–1500 m.

Zingiber chrysanthum Roscoe, *Monandr. Pl. Scitam.* t. 86. 1824.

Distribution: Arunachal Pradesh, Sikkim, West Bengal (Darjeeling); 500–1500 m.

Zingiber clarkei King ex Baker, *Fl. Brit. India* 6: 248. 1892.

Distribution: Sikkim, West Bengal (Darjeeling); 500–1600 m.

Zingiber elatum Roxb., *Fl. Ind.* 1: 56. 1820.

Distribution: Sikkim; 500–1500 m.

Zingiber intermedium Baker, *Fl. Brit. India* 6: 246. 1892.

Distribution: Arunachal Pradesh.

Zingiber montanum (J.Koenig) Link ex A.Dietr., *Sp. Pl.* 1: 52. 1831. *Amomum montanum* J.Koenig

Distribution: Arunachal Pradesh, Sikkim; 300–1500 m.

(Plate 348c)

Zingiber neotruncatum T.L.Wu, L.Larsen & Turland, *Novon* 10: 91. 2000.

Distribution: Arunachal Pradesh; 300 m.

Zingiber officinale Roscoe, *Trans. Linn. Soc. London* 8: 348. 1807.

Distribution: Arunachal Pradesh, Sikkim, Uttarkhand; 300–1500 m.

Zingiber roseum (Roxb.) Roscoe, *Trans. Linn. Soc. London* 8: 348. 1807. *Amomum roseum* Roxb.

Distribution: Arunachal Pradesh, Uttarkhand; 200–1200 m.

Zingiber rubens Roxb., *Asiat. Res.* 11: 348. 1810.

Distribution: Arunachal Pradesh, Sikkim; 1000–1500 m.

Zingiber sianginensis Tatum & A.K.Das, *Pleione* 10(1): 170. 2016.

Distribution: Arunachal Pradesh; 150–900 m.

Zingiber squarrosus Roxb., *Asiat. Res.* 11: 348. 1810.

Distribution: Arunachal Pradesh.

Zingiber zerumbet (L.) Roscoe ex Sm., *Exot. Bot.* 2: 105. 1806. *Amomum zerumbet* L.

Distribution: Arunachal Pradesh, Himachal Pradesh, Sikkim; 200–1500 m.

(Plate 358)

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