

General Note

**IMPORTANT PLANTS HOUSED AT THE HERBARIUM OF RESEARCH
INSTITUTE IN INDIAN SYSTEM OF MEDICINE,**

JOGINDER NAGAR (H.P.)

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INTRODUCTION

A herbarium is a collection of dried, pressed and well preserved plant specimens stored in special cabinets under favourable temperature conditions and arranged according to some accepted system of classification. Herbarium contains a wide range of plant specimens belong to different plant's families. Herbarium collections have a variety of origins. The information is usually written in the lower right hand corner of the herbarium sheet. Herbarium provides the essential information for studies in taxonomy, systematics, ecology, anatomy, morphology, conservation biology, biodiversity, ethnobotany, paleobiology etc. People with an interest in the traditional system of medicines also use herbaria. Herbaria are the core research institutions for the classification and naming of plants. Most comparative studies for taxonomic purposes are made in the herbarium. Herbarium provides information about the flora of particular areas and is used for identification of unknown plants. Research under taken at the herbarium is usually published in the form of a research article in a scientific journal.

The first herbarium of the world was founded in 1545 in the University of Padua, Italy. There are 4000 herbaria existing in the world. Some important herbaria of the world include: Herbarium of the Royle Botanical Garden Kew, London is the world's largest (1853) and it has about 350000 different types of specimens. V. L. Komarov Botanical Institute, Leningrad, U.S.S.R (1823), Museum National d'histoire Naturelle, Paris (1635), Herbarium at New York Botanical Garden New York, United States (1801), Conservatoire at Jardin Botaniques, Geneva, Switzerland (1817), Herbarium at National History Museum, Chicago, Austria (1893), Herbarium at Garden College, Rawalpindi, Pakistan (1893). Some important herbaria of India include; Central National Herbarium, Calcutta (1793), Forest Research Institute Herbarium, Dehradun (1816), Botanical Survey of India, Eastern Circle, Shillong, Meghalaya (1956), Botanical Survey of India, Northern Circle, Dehradun, Uttarakhand (1956), National Botanic Garden Herbarium, Lucknow (1948) Botanical Survey of India, Southern Circle, Coimbatore, (1874), Botanical Survey of India, Western Circle, Poona (1956), Botanical Survey of India, Central Circle, Allahabad (1955), Botanical Survey of India, Industrial Section, Calcutta (1887) [[https:// 2014a](https://2014a) & b; Jain & Rao, 1977; Kaur *et al.*, 2013].

There are 1861 specimens of 490 plant species and 97 families belong to two different taxonomic groups i.e. angiosperms and gymnosperms, has been preserved and housed at the herbarium of Research Institute in Indian System of Medicines, Joginder Nagar, District Mandi (Himachal Pradesh) [Table. 1]. Out of these families, 94 belong to angiosperms and 3 belong to gymnosperms. Out of 94 angiosperm's families 81 families (437 plant species) belong to Dicotyledons and 13 (44 plant species) belong to Monocotyledons. Only 9 plant species belong to gymnosperms. Herbarium specimens are collected from all over Himachal Pradesh and arranged according to Bentham and Hooker (1862-1883) system of classification.

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Table 1: List of plants available at the herbarium of Research Institute in Indian System of Medicine, Joginder Nagar

S.N.	Family	Name of Plants
1	Acanthaceae	<i>Adhatoda vasica</i> Nees; <i>Barleria cristata</i> Linn.; <i>Poristrophe bicalyculata</i> Nees; <i>Strobilanthes atropurpurens</i> Nees; <i>Strobilanthes dalhausianus</i> C. B. Clarke
2	Alliaceae	<i>Allium govanianum</i> Wall.
3	Amaranthaceae	<i>Achyranthes aspera</i> Linn.; <i>Achyranthes bidentata</i> Bl.; <i>Aerva sanguinolenta</i> Blume; <i>Aerva scandens</i> Wall.; <i>Amaranthus paniculatus</i> Linn.; <i>Amaranthus roxbughiansa</i> Nevski; <i>Amaranthus viridis</i> Linn.; <i>Amaranthus spinosus</i> Linn.; <i>Cyathula capitata</i> Moq.; <i>Cyathula tomentosa</i> (Roth.) Moq.
4	Amaryllidaceae	<i>Curculigo orchioides</i> Gaertn.
5	Anacardiaceae	<i>Pistacia integerrima</i> Stewart ex Brandis; <i>Rhus wallichii</i> Hook. f.
6	Apiaceae	<i>Ammi majus</i> Linn.; <i>Ammi visnaga</i> (Linn.) Lam.; <i>Anethum sowa</i> Kurz; <i>Angelica glauca</i> Edgew.; <i>Anthriscus nemorosa</i> (M. Bieb.) Spreng.; <i>Bupleurum lanceolatum</i> Wall. ex DC.; <i>Bupleurum candollii</i> Wall. ex DC.; <i>Bupleurum falcatum</i> Linn.; <i>Bupleurum tenue</i> Buch.-Ham ex Don; <i>Chaerophyllum villosum</i> Wall. ex DC.; <i>Cicuta virosa</i> L.; <i>Coriandrum sativum</i> Linn.; <i>Foeniculum vulgare</i> Mill.; <i>Hydrocotyle asiatica</i> Linn.; <i>Hydrocotyle javanica</i> Thunb.; <i>Hydrocotyle rotundifolia</i> Roxb.; <i>Lingusticum elatum</i> C. D. Clarke; <i>Pleurospermum brunimis</i> Benth. ex C. B. Clarke; <i>Sanicula europaea</i> Linn.; <i>Selinum tenuifolium</i> Wall. ex DC.; <i>Selinum vaginatum</i> C. B. Clarke
7	Apocynaceae	<i>Carrisa carandas</i> Linn.; <i>Nerium indicum</i> Mill.; <i>Thevetia nerifolia</i> Juss. ex Steud.; <i>Vallisneria spiralis</i> L.; <i>Vinca major</i> Linn.
8	Aquifoliaceae	<i>Ilex dipyrrena</i> Wall.
9	Araceae	<i>Acorus calamus</i> Linn.; <i>Arisaema flavum</i> (Forssk.) Schott.; <i>Triphonium diversifolium</i> Wall. ex. Schott
10	Araliaceae	<i>Hedera helix</i> C. B. Clarke, non Linn.
11	Asclepiadaceae	<i>Asclepias curassivica</i> Linn.; <i>Calotropis gigantea</i> (Linn.) R. Br. ex Ait.; <i>Calotropis procera</i> (Ait.) R. Br.; <i>Cryptolepis buchanani</i> Roem. & Schult.; <i>Cynanchum auriculatum</i> Royle ex Wight; <i>Marsdenia roylei</i> Wight; <i>Pergularia extensa</i> N. E. Br.; <i>Tylophora hirsuta</i> (Wall.) Wight.
12	Asparagaceae	<i>Asparagus adscendens</i> Roxb.; <i>Asparagus filicinus</i> Buch.-Ham.; <i>Ophipogon intermedius</i> D. Don
13	Asteraceae	<i>Achillea millefolium</i> Linn.; <i>Ageratum conyzoides</i> Linn.; <i>Ainsliaea aptera</i> DC.; <i>Anaphalis adnata</i> DC.; <i>Anaphalis araneosa</i> DC.; <i>Anaphalis nubigens</i> DC.; <i>Anaphalis triplinervis</i> C. B. Clarke; <i>Arctium lappa</i> Linn.; <i>Artemisia absinthium</i> Linn.; <i>Artemisia maritima</i> Linn.; <i>Artemisia scoparia</i> Waldst. & Kit.; <i>Artemisia vestita</i> Wall. ex DC.; <i>Artemisia vulgaris</i> Linn.; <i>Aster asperulus</i> Nees; <i>Aster molliusculus</i> Wall.; <i>Aster thomsoni</i> C. B. Clarke; <i>Bidens pilosa</i> Linn.; <i>Bidens tripartita</i> Linn.; <i>Centipeda minima</i> (Linn.) A. Br. & Aschers.; <i>Centratherum anthelminticum</i> Kuntze; <i>Conyza japonica</i> Lees; <i>Conyza stricta</i> Willd.; <i>Cyathocline lyrata</i> Cass.; <i>Cyathocline purpurea</i> Buch.-Ham. ex. D. Don; <i>Dichrocephala latifolia</i> DC.; <i>Eclipta alba</i> (Linn.) Hassk.; <i>Erigeron canadensis</i> Linn.; <i>Erigeron linifolius</i> Willd.; <i>Erigeron multicaulis</i> DC.; <i>Lactuca dissecta</i> Don; <i>Lactuca macrorrhiza</i> Hook. f.; <i>Senecio amplexicaulis</i> Wall.; <i>Senecio chrysanthemoides</i> DC.; <i>Senecio jacquemontianus</i> Benth.; <i>Solidago virgaurea</i> Linn.; <i>Tanacetum longifolium</i> Wall. ex DC.; <i>Tanacetum nubigenum</i> Wall. ex DC.; <i>Taraxacum officinale</i> Weber ex Wiggers; <i>Vernonia cinerea</i> Less.
14	Balsaminaceae	<i>Impatiens laxiflora</i> Edgew.; <i>Impatiens racemosa</i> DC.; <i>Impatiens roylei</i> Walp.; <i>Impatiens scabrida</i> DC.; <i>Impatiens thomsonii</i> Hook. f.

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15	Begoniaceae	<i>Begonia picta</i> Sm.
16	Berberidaceae	<i>Berberis aristata</i> DC.; <i>Berberis chitria</i> Lindl.; <i>Berberis lycium</i> Royle; <i>Podophyllum hexandrum</i> Royle
17	Betulaceae	<i>Alnus nepalensis</i> D. Don; <i>Betula bhojpattra</i> Wall.; <i>Corylus colurna</i> Linn.
18	Boraginaceae	<i>Cynoglossum denticulatum</i> A. DC.; <i>Cynoglossum fureatum</i> Wall.; <i>Cynoglossum micranthum</i> Desf.; <i>Cynoglossum nervosum</i> Benth.; <i>Cynoglossum wallichii</i> G. Don; <i>Ethretia acuminata</i> R. Br.
19	Brassicaceae	<i>Erysimum hieracifolium</i> Linn.; <i>Lepidium sativum</i> Linn.; <i>Nasturtium indicum</i> DC.; <i>Nasturtium officinale</i> R. Br.; <i>Senebiera pinnatifida</i> DC.
20	Buddlejaceae	<i>Buddleja asiatica</i> Lour.
21	Caesalpiniaceae	<i>Bauhinia vahlii</i> Wight & Arn.; <i>Bauhinia variegata</i> Linn.; <i>Cassia fistula</i> Linn.; <i>Cassia mimosoides</i> Linn.; <i>Cassia occidentalis</i> Linn.; <i>Cassia tora</i> Linn.
22	Cannabinaceae	<i>Cannabis sativa</i> Linn.
23	Caprifoliaceae	<i>Leycesteria formosa</i> Wall.; <i>Viburnum cotinifolium</i> D. Don; <i>Viburnum foetens</i> Decne; <i>Viburnum stellulatum</i> Wall ex DC.
24	Caryophyllaceae	<i>Lychnis fimbriata</i> Wall; <i>Lychnis nutans</i> Benth.; <i>Silene conoidea</i> Linn.; <i>Stellaria bulbosa</i> Wulf.; <i>Stellaria latifolia</i> Benth.; <i>Stellaria media</i> Linn.
25	Celastraceae	<i>Celastrus paniculatus</i> Willd.; <i>Euonymus echinatus</i> Wall.; <i>Euonymus pendulus</i> Wall.
26	Chenopodiaceae	<i>Chenopodium album</i> Linn.; <i>Chenopodium ambrosioides</i> Linn.; <i>Chenopodium botrys</i> Linn.
27	Convallariaceae	<i>Polygonatum cathcartii</i> Baker.; <i>Polygonatum cirrifolium</i> Royle; <i>Polygonatum verticillatum</i> Alhoni
28	Convolvulaceae	<i>Evolvulus alsinoides</i> Linn.; <i>Ipomoea coccinea</i> C. B. Clarke, non Linn.; <i>Ipomoea purpurea</i> (Linn.) Roth.; <i>Merremia dissecta</i> (Jacq.) Hallier f.
29	Coriariaceae	<i>Coriaria nepalensis</i> Wall.
30	Cornaceae	<i>Cornus macrophylla</i> Wall.
31	Crassulaceae	<i>Sedum asiaticum</i> C. B. Clarke, non DC.; <i>Sedum ewersii</i> Ledeb.; <i>Sedum multicaule</i> Wall. ex Lindl.
32	Cucurbitaceae	<i>Bryonopsis lacinosai</i> (Linn.) Naud.; <i>Herpetospermum caudigerum</i> Wall.; <i>Melothria heterophylla</i> (Linn.) Cogn.; <i>Trichosanthes bracteata</i> (Lam.) Voigt.
33	Cupressaceae	<i>Cupressus torulosa</i> D. Don; <i>Juniperus communis</i> Linn.; <i>Juniperus pseudosabina</i> Hook. f.; <i>Juniperus recurva</i> Buch.-Ham.
34	Cuscustaceae	<i>Cuscuta europaea</i> Linn.; <i>Cuscuta reflexa</i> Roth.
35	Cyperaceae	<i>Cyperus distans</i> Linn. f.; <i>Cyperus rotundus</i> Linn.; <i>Cyperus scariosus</i> R. Br.; <i>Scirpus squarrosus</i> Linn.
36	Dioscoreaceae	<i>Dioscorea bulbifera</i> Linn.; <i>Dioscorea deltoidea</i> Wall.; <i>Dioscorea kumaonensis</i> auct. Non Kunth.
37	Dipsacaceae	<i>Dipsacus inermis</i> Wall.
38	Droseraceae	<i>Drosera lunata</i> Buch.-Ham.
39	Elaeagnaceae	<i>Elaeagnus umbellata</i> Thunb.; <i>Hippophae salicifolia</i> D. Don
40	Ephedraceae	<i>Ephedra gerardiana</i> Wall.
41	Ericaceae	<i>Cassiope fastigiata</i> D. Don; <i>Lyonia ovalifolia</i> (Wall.) Drude; <i>Rhododendron anthopogon</i> D. Don; <i>Rhododendron arboreum</i> Smith; <i>Rhododendron companulatum</i> D. Don; <i>Rhododendron lepidotum</i> Wall.
42	Euphorbiaceae	<i>Andrachne cordifolia</i> Muell. – Arg.; <i>Baliospermum montanum</i> Muell. – Arg.; <i>Buxus sempervirens</i> Linn.; <i>Buxus wallichiana</i> Baill.; <i>Emblica officinalis</i> Gaertn.; <i>Euphorbia geniculata</i> Ortega; <i>Euphorbia hypercifolia</i> Linn.; <i>Euphorbia pilosa</i> Linn.; <i>Euphorbia prolifera</i> Buch. – Ham.; <i>Euphorbia thymifolia</i> Linn.; <i>Jatropha curcas</i> Linn.; <i>Mallotus philippensis</i> Muell. – Arg.; <i>Phyllanthus niruri</i> Hook. f. ,non Linn.; <i>Ricinus communis</i> Linn.

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43	Fagaceae	<i>Castanea sativa</i> Mill.; <i>Castanea vulgaris</i> Lam.; <i>Quercus semecarpifolia</i> Sm.
44	Fumariaceae	<i>Corydalis cornuta</i> Royle; <i>Corydalis govaniiana</i> Wall.; <i>Corydalis ramosa</i> Wall.
45	Gentianaceae	<i>Gentiana contorta</i> Royle; <i>Halenia elliptica</i> D. Don ; <i>Swertia alata</i> Royle; <i>Swertia alternifolia</i> Royle; <i>Swertia angustifolia</i> Buch.-Ham. ex D. Don; <i>Swertia chirata</i> Buch.-Ham. ex C. B. Clarke; <i>Swertia cordata</i> Wall.; <i>Swertia paniculata</i> Wall.; <i>Swertia purpurascens</i> Wall.; <i>Swertia speciosa</i> (G. Don).
46	Geraniaceae	<i>Geranium divaricatum</i> Ehrh.; <i>Geranium nepalense</i> Sweet; <i>Geranium wallichianum</i> D. Don
47	Hippocastanaceae	<i>Aesculus indica</i> Colebr.
48	Hypericaceae	<i>Hypericum elodeoides</i> Choisy; <i>Hypericum mysorensense</i> B. Heyne; <i>Hypericum patulum</i> Thunb.; <i>Hypericum perforatum</i> Linn.
49	Juglandaceae	<i>Juglans regia</i> Linn.
50	Juncaceae	<i>Luzula compestris</i> DC.
51	Lamiaceae	<i>Elsholtzia polystachya</i> Benth. ; <i>Elsholtzia strobilifera</i> Benth.; <i>Lamium album</i> Linn.; <i>Leonurus cardiac</i> L. ; <i>Leucas cephalotes</i> Spreng.; <i>Leucas lanata</i> Benth.; <i>Marrubium vulgare</i> Linn.; <i>Mentha longifolia</i> (Linn.) Nathh.; <i>Mentha piperata</i> Linn.emend. Huds.; <i>Mentha sylvestris</i> Linn.; <i>Micromeria biflora</i> Benth.; <i>Nepeta ciliaris</i> Benth.; <i>Nepeta spicata</i> Benth.; <i>Ocimum basilicum</i> Linn.; <i>Ocimum canum</i> Sims; <i>Ocimum kilimandscharicum</i> Guerke; <i>Origanum vulgare</i> Linn.; <i>Phlomis bracteosa</i> Royle; <i>Plectranthus coetsa</i> Buch.-Ham.; <i>Plectranthus gerardianus</i> Benth.; <i>Plectranthus rugosus</i> Wall.; <i>Pogostemon plectranthoides</i> Desf.; <i>Prunella vulgaris</i> L. ; <i>Salvia glutinosa</i> Linn.; <i>Thymus serpyllum</i> Linn.
52	Lauraceae	<i>Cinnamomum camphora</i> (Linn.)Nees & Eberm.; <i>Cinnamomum tamala</i> Nees & Eberm ; <i>Litsea consimilis</i> Nees
53	Linaceae	<i>Linum usitatissimum</i> Linn.
54	Lythraceae	<i>Woodfordia floribunda</i> Salisb.
55	Malvaceae	<i>Sida spinosa</i> Linn.
56	Melastomataceae	<i>Osbeckia stellata</i> Wall.
57	Meliaceae	<i>Azadirachta indica</i> A. Juss.; <i>Melia azedarach</i> Linn.
58	Menispermaceae	<i>Cissampelos pareira</i> Linn.; <i>Cocculus laurifolius</i> DC.; <i>Stephania hernandiifolia</i> Walp.; <i>Tinospora cordifolia</i> (Willd.) Miers ex Hook.f. & Thoms.
59	Mimosaceae	<i>Acacia arabica</i> Willd. ; <i>Acacia catechu</i> Willd.; <i>Albizia lebbek</i> Benth.
60	Moraceae	<i>Ficus faveolata</i> Wall.; <i>Ficus palmata</i> Forsk.; <i>Ficus religiosa</i> Linn.; <i>Ficus scandens</i> Lam.; <i>Morus alba</i> Linn.
61	Morinaceae	<i>Morina longifolia</i> Wall.; <i>Morina persica</i> Linn.
62	Myricaceae	<i>Myrica nagi</i> Hook.f. in part, non Thunb.
63	Myrtaceae	<i>Eucalyptus globulus</i> Labill.; <i>Syzygium cumini</i> (Linn.) Skeels
64	Nyctaginaceae	<i>Boerhaavia diffusa</i> Linn.
65	Orchidaceae	<i>Calanthe tricarinata</i> Lindl.; <i>Epipactis latifolia</i> Swartz; <i>Eulophia campestris</i> Wall.; <i>Habenaria edgworthii</i> Hook. f. in Herb. Kew.; <i>Herminium angustifolium</i> Benth.; <i>Microstylis muscifera</i> Ridley; <i>Orchis latifolia</i> Linn.; <i>Oreorchis micrantha</i> Zindl.; <i>Satyrium nepalense</i> Don; <i>Vanda roxburghii</i> R. Br.
66	Oxalidaceae	<i>Oxalis corniculata</i> Linn.
67	Papaveraceae	<i>Argemone mexicana</i> Linn. ; <i>Meconopsis aculeata</i> Royle
68	Papilionaceae; Fabaceae	<i>Abrus precatorius</i> Linn.; <i>Astragalus chlorostachys</i> Lindl.; <i>Astragalus leucocephalus</i> Grah; <i>Crotolaria alata</i> Buch.-Ham.;

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- Crotolaria prostata* Roxb.; *Dalbergia sissoo* Roxb.; *Desmodium floribundum* G. Don; *Desmodium gangeticum* DC.; *Desmodium tiliaefolium* Don; *Indigofera pulchella* Roxb.; *Lens culinaris* Medic.; *Lespedeza gerardiana* Grah.; *Lotus corniculatus* Linn.; *Medicago denticulata* Willd.; *Phaseolus mungo* auct.non Linn.; *Pongamia pinnata* Pierre; *Rhynchosia himalensis* Benth.; *Teramnus labialis* (L.f.) Spreng.; *Thermopsis barbata* Royle; *Trigonella corniculata* Linn.; *Trigonella foenum-graecum* Linn.; *Trigonella gracilis* Benth.; *Uraria picta* Desv.; *Vicia regidula* Royle; *Vigna vexillata* (Benth.) A. Rich.
- 69 Phytolaccaceae *Phytolacca acinosa* Roxb.
- 70 Pinaceae *Cedrus deodara* (Roth.); *Picea morinda* Link; *Pinus excels* Wall. ex D. Don; *Pinus longifolia* Roth.
- 71 Piperaceae *Piper longum* Linn.
- 72 Plumbaginaceae *Plumbago zeylanica* Linn.
- 73 Poaceae *Calamagrostis littorea* DC.; *Cymbopogon martini* (Roxb.) Wats; *Cymbopogon nardus* (Linn.) Rendle; *Eleusine coracana* Gaertn.; *Erianthus fulvus* Nees; *Panicum miliaceum* Linn.
- 74 Polygonaceae *Aconogonum rumicifolium* (Royle ex Bab.) H. Hara.; *Fagopyrum esculentum* Moench; *Fagopyrum cymosum* Meissn.; *Fagopyrum tataricum* Gaertn.; *Polygonum alatum* Buch.-Ham. ex Spreng; *Polygonum amplexicaule* D. Don; *Polygonum barbatum* Linn.; *Polygonum capitatum* Buch.-Ham.; *Polygonum hydropiper* Linn.; *Polygonum macrophyllum* D. Don; *Polygonum nepalense* Meissn.; *Polygonum polystachyum* Wall. ex Meissn.; *Polygonum pterocarpum* Wall.; *Polygonum racumbens* Royle; *Polygonum rumicifolium* Royle ex Bab.; *Polygonum speciosum*; *Polygonum sphaerostachyum* Meissn. ; *Polygonum tubulosum* Boiss; *Rheum emodi* Wall. ex Meissn.; *Rumex denticulatus* K. Koch; *Rumex hastatus* D. Don; *Rumex nepalensis* Spreng.
- 75 Primulaceae *Anagallis arvensis* Linn.; *Androsace lanuginosa* Wall.; *Androsace rotundifolia* Hardw .; *Primula macrophylla* D. Don
- 76 Ranunculaceae *Aconitum heterophyllum* Wall. ex Royle; *Aconitum violaceum* Stapf.; *Anemone obtusifolia* D. Don; *Anemone rivularis* Buch.-Ham. ex DC.; *Anemone vitifolia* Buch.-Ham. ex DC.; *Aquilegia vulgaris* Linn.; *Clematis connata* DC.; *Clematis grata* Wall.; *Ranunculus diffuses* DC.; *Ranunculus hirtellus* Royle; *Ranunculus pensylvanicus* Hook. f. & Thoms. non Linn. f.; *Ranunculus secleratus* Linn.: DC.; *Thalictrum foetidum* Linn.; *Thalictrum foliolosum* DC.; *Thalictrum javanicum* Blume; *Thalictrum neurocarpum* Royle; *Thalictrum rostellatum* Hook.f. & Thoms.; *Thalictrum saniculaeforme* DC.
- 77 Rhamnaceae *Rhamnus dahuricus* M. Laws.; *Rhamnus triquetra* Brandis; *Rhamnus virgata* Roxb.; *Zizyphus jujuba* Mill.; *Zizyphus oenoplia* Mill.; *Zizyphus rotundifolia* Lam.
- 78 Rosaceae *Agrimonia eupatorium* Linn.; *Cotoneaster bacillaris* Wall.; *Cotoneaster microphylla* Wall.; *Eribotrya japonica* Lindl.; *Fragaria indica* Andr.; *Fragaria vesca* Linn.; *Gneum elatum* Wall.; *Potentilla albifolia* Wall.; *Potentilla argyrophylla* Wall.; *Potentilla atrosanguinea* Lodd.; *Potentilla fulgens* Wall.; *Potentilla kleiniana* Wight & Arn.; *Potentilla nepalensis* Hook.; *Potentilla siboldi* Haller; *Prinsepia utilis* Royle; *Prunus persica* Batsch; *Pyrus communis* Linn.; *Pyrus pashia* Buch.-Ham. ex D. Don; *Pyrus sorbifolia* Cham.ex Spreng.; *Rosa macrophylla* Lindl.; *Rosa moschata* Mill.; *Rosa sericea* Lindl.; *Sorbus foliolosa* (Wall.) Spach; *Spiraea aruncus* Hook. f. in part; *Spiraea canescens* D. Don; *Spiraea sorbifolia* Linn.
- 79 Rubiaceae *Hamiltonia suaveolens* Roxb.; *Leptodermis lanceolata* Wall.; *Randia dumetrum* Lamk.; *Randia tetrasperma* Roxb.; *Rubia cordifolia* Linn.
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80	Rutaceae	<i>Boenninghausenia albiflora</i> Reichnb.; <i>Murraya koenighii</i> (Linn.) Spreng.; <i>Skimmia laureola</i> Sieb. & Zucc.; <i>Zanthoxylum alatum</i> Roxb.
81	Sapindaceae	<i>Cardiospermum helicacabum</i> Linn.; <i>Dodonaea viscosa</i> Linn.; <i>Sapindus mukorosii</i> Gaertn.
82	Saxifragaceae	<i>Astilbe rivularis</i> Buch.-Ham. ; <i>Bergenia ligulata</i> Engl.; <i>Bergenia stracheyi</i> (Hook. f. et Thoms.) Engl.; <i>Deutzia staminea</i> R. Br. ex Wall.; <i>Pernassia nubicola</i> Wall. ; <i>Ribes rubrum</i> Linn.; <i>Saxifraga bruniana</i> Wall.; <i>Saxifraga diversifolia</i> Wall.; <i>Saxifraga filicaulis</i> Wall.
83	Scrophulariaceae	<i>Bacopa monnieri</i> (Linn.) Penn.; <i>Pedicularis carnosa</i> Wall.; <i>Pedicularis gracilis</i> Wall.; <i>Pedicularis megalantha</i> Don; <i>Pedicularis pectinata</i> Wall.; <i>Picrorhiza kurroa</i> Royle ex Benth.; <i>Scrophularia himalensis</i> Royle; <i>Torenia cordifolia</i> Roxb.; <i>Vandellia nummularifolia</i> Don; <i>Verbascum thapsus</i> Linn. ; <i>Wulfenia amherstiana</i> Benth.
84	Smilacaceae	<i>Smilax aspera</i> Linn. ; <i>Smilax glaucophylla</i> Klotzsch
85	Solanaceae	<i>Datura metel</i> Linn.; <i>Datura stramonium</i> Linn.; <i>Datura suaveolens</i> Humb. & Bonpl.ex Willd.; <i>Hyoscyamus niger</i> Linn.; <i>Nicandra physaloides</i> Gaertn.; <i>Nicotiana tobaccum</i> Linn.; <i>Solanum indicum</i> Linn.; <i>Solanum khasianum</i> C.B.Clarke; <i>Solanum nigrum</i> Linn.; <i>Solanum pseudo-capsicum</i> Linn.; <i>Solanum trilobatum</i> Linn.; <i>Solanum tuberosum</i> Linn.; <i>Solanum verbascifolium</i> Linn.; <i>Solanum xanthocarpum</i> Schard & Wendl.; <i>Withania somnifera</i> Dunal
86	Tamaricaceae	<i>Tamarix dioica</i> Roxb.
87	Taxaceae	<i>Taxus baccata</i> Linn.
88	Theaceae	<i>Camellia thea</i> Link
89	Tiliaceae	<i>Grewia umbellata</i> Roxb.; <i>Triumfetta neglecta</i> Wight & Arn.; <i>Triumfetta rhomboidea</i> Jacq.
90	Trilliaceae	<i>Trillium govanianum</i> Wall.
91	Urticaceae	<i>Boehmeria platyphylla</i> D.Don; <i>Celtis australis</i> Linn.; <i>Debregeasia hypoleuca</i> Wedd.; <i>Girardiana heterophylla</i> Decne; <i>Lecanthus wallichii</i> Wedd.; <i>Pilea umbrosa</i> Wedd.; <i>Pouzolzia hirta</i> Hassk.; <i>Trema politoria</i> Planch.; <i>Urtica dioica</i> Linn.; <i>Urtica parviflora</i> Roxb.
92	Valerianaceae	<i>Valeriana wallichii</i> DC.
93	Verbenaceae	<i>Gmelina arborea</i> Roxb.; <i>Lantana camara</i> Linn.; <i>Lippia nodiflora</i> Rich.; <i>Vitex nigundo</i> Linn.
94	Violaceae	<i>Viola canescens</i> Wall.; <i>Viola odorata</i> Linn.; <i>Viola serpens</i> Wall. ex Ging., non Ridley
95	Vitaceae	<i>Vitis vinifera</i> Linn.
96	Zingiberaceae	<i>Amomum subulatum</i> Roxb.; <i>Curcuma longa</i> Linn.; <i>Curcuma angustifolia</i> Roxb. <i>Elettaria cardamomum</i> Maton; <i>Hedychium spicatum</i> Buch.-Ham.; <i>Roscoea procera</i> Wall.;
97	Zygophyllaceae	<i>Tribulus terrestris</i> Linn.

General Note

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