

HERBARIUM "PLP"

2010

4264



INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY, PALAMPUR
(COUNCIL OF SCIENTIFIC & INDUSTRIAL RESEARCH)
हिमालय जैवसंसाधन प्रौद्योगिकी संस्थान, पालमपुर, (हि. प्र.)

Date 17th Aug 03
दिनांक

No. 4264.
संख्या

Scientific Name *Aconitum*
वैज्ञानिक नाम *rotundifolium* Kar.

Family Ranunculaceae
कुल

Local Name's Bonkar.
स्थानीय नाम

English Name
अंग्रेजी नाम

Locality Khongme-Tud.
स्थान

District Lahaul-Spiti.
ज़िला

Altitude 4821m.
ऊँचाई

Latitude 32°13'57" Longitude 78°07'45"
अक्षांश देशान्तर

Ethnobotanical Use / नृवाचनमयितिक उपयोग Whole plant is medicinal, plant juice used to cure jaundice & blood purification.
Remarks / टिप्पणी

Collector(s) Dr. H.R. Negi
संग्रहकर्ता And Party.

Determinative GSI
निर्धारक O.Dun.



IHBT

INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY
Council of Scientific & Industrial Research
Palampur -176061 (H.P.)

QUALITY POLICY OF IHBT

IHBT is committed to provide an industrial R&D base for establishment, up-gradation and sustainable management of bio-resources in the Himalayan region through agro-technology, processing technology and biotechnology

The following objectives have been set up for achieving continual improvement in our operations:

- Technology development and transfer
- Quality publications and patents
- Knowledge sharing and dissemination through trainings
- Enhancement of customer satisfaction
- Higher resource generation

AIMS OF IHBT HERBARIUM

- **Repository-** house and preserve the plant wealth of western Himalaya
- **Referral-** authentication of plant specimens
- **Research and training-** generate new information and create competent manpower
- **Reach-** digitization of information for wider dissemination

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Published by : Dr. Paramvir Singh Ahuja

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Compiled and edited by : Sanjay Kr. Uniyal

Preface

Herbaria are key referral repositories for exploring the flora of a region. One amongst these important repositories in the northern region is located at the Institute of Himalayan Bioresource Technology (Council of Scientific and Industrial Research) at Palampur, Himachal Pradesh, India with an acronym "PLP".

Being amongst the youngest, the emphasis has largely been on the western Himalayan Zone. The distinction of the Herbarium lies in its focus on cold deserts and economic species of the alpine regions. Some specimens of the European Alps as a comparison also exist in this Herbarium. The Herbarium is a good reference for Gymnosperms of the region and amongst the Angiosperms the families Asteraceae, Poaceae, Fabaceae, Rosaceae and Lamiaceae are specifically well documented.

This highlights the salient contents in the Herbarium and can serve as a guide for a botanist exploring the western Himalayan Flora. Importantly this content is to be placed on the digital portal and a researcher could access the portal through membership. Like any other Herbarium, this Herbarium is also dynamic and the accessions are increasing by the day with increase in the frequency and intensity of location specific floristic surveys.

The researchers, technicians and eminent botanists need to be congratulated for the dedicated efforts in strengthening the contents and quality of this Herbarium. We specifically acknowledge the contribution of the Botanical Survey of India at Dehradun for their efforts in validating some of our specimens.



(Paramvir Singh Ahuja)

Director, IHBT



CATALOGUE OF THE HERBARIUM OF INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY (CSIR), PALAMPUR

Biodiversity as is now said "*is the life insurance of life itself*". Plants contribute a significant, and are perhaps the most important, component of biodiversity that sustains livelihood on the planet earth. Precisely for this reason, today, much emphasis is being placed on studying and documenting bioresources in totality.

Established in 1984, the Institute of Himalayan Bioresource Technology (IHBT) formerly known as the CSIR Complex, Palampur, is a constituent laboratory of Council of Scientific & Industrial Research (CSIR) with a focus on Himalayan flora. The Institute has a mandate of providing R&D services on economic bioresources in western Himalayan region leading to value added plants, products and processes for industrial, societal and environmental benefit.

With the depleting biodiversity of Himalaya, overall mandate of IHBT necessitated establishment

of a herbarium that would function as a repository of plant species of the western Himalayan region and also serve as a referral point for authentication of plant species. Recognizing this importance and its implications in newer areas of research, IHBT initiated development of herbarium in the year 1993.

Historically, the concept of herbarium was initiated long back in the 16th century. Luca Ghini (1556), an Italian, recommended lying and pressing as the best method for preserving plant specimens. The method was carried forward and later, Linnaeus (1753) popularized the practices of mounting specimens on a single sheet which, are still continued.

Herbarium is an organized collection of carefully preserved and documented plant specimens PLUS associated resources arranged according to an internationally accepted system of classification

The first herbarium of the world was founded in the University of Padua, Italy in 1545

Top five herbaria of the world in terms of plant holdings

Herbarium	Holdings (millions)
Museum of Natural History, France	10.00
New York Botanical Garden, USA	7.20
Komarov Botanical Institute, Russia	7.16
Royal Botanic Gardens, UK	7.00
Harvard University, USA	5.00

Today, there are more than 3,990 recognized herbaria in the world that are listed in the *Index Herbariorum*-a directory of the world herbaria. They together harbour more than 350 million specimens. From India, 61 herbaria spanning across the length and breadth of the country are listed in

this index. IHBT herbarium was recognized and listed in the *Index Herbariorum* in the year 2007 with the acronym “PLP” that stands for Palampur, where the institute is located. In India, IHBT herbarium is the 57th, amongst CSIR laboratories 8th, and the only one from the state of Himachal Pradesh to feature in this index. PLP has a focus on “4R” namely Repository, Referral, Research and training, and Reach. PLP aims to harbour the plant wealth of western Himalayan region and serve as a **repository** of the same. Authentication of plant species is a must for any plant research, and thus being a **referral** source is the second aim of PLP. Generating new information and awareness through **research and training** is the third aim, and the use of information technology for easy data sharing and wider dissemination of information, so as to have maximum **reach** is the fourth aim of PLP.

Herbarium maintenance and growth is a dynamic process that changes with continued efforts and time. Currently, PLPhouses 13,000 specimens of 1208 flowering plant species. These species belong to 602 genera placed in 137 families and are arranged according to the Bentham and Hooker system of classification. PLP houses six species new to the Flora of Himachal Pradesh

Top five herbaria of India

Herbarium	Holdings
Central National Herbarium, Howrah	15, 00,000
Forest Research Institute, Dehradun	3,40,000
Botanical Survey of India, SC, Coimbatore	2,59,000
National Botanical Research Institute, Lucknow	2,54,000
St. Xaviers College, Mumbai	2,00,000

Group	Family	Genera	Species
Angiosperms	133	596	1196
Gymnosperms	4	6	12
Pteridophytes	11	18	30

Dominant Families-Presently Asteraceae (158 taxa) followed by Poaceae (122 taxa), Fabaceae (76 taxa), Rosaceae (49 taxa) and Lamiaceae (48 taxa) are the top 5 families in PLP

Dominant Genera-Presently Polygonum (21 taxa), Artemisia (19 taxa), Astragalus and Potentilla (14 taxa each), Cyperus (13 taxa) and Saussurea (12 taxa) are the top genera in PLP

that were collected by the team members during field surveys.

Till late, the primary focus of PLP was on flowering plants however, recently work on pteridophytes has been initiated and the collections are pouring

in. Presently, it has 30 species representing 18 genera that belong to 11 families of pteridophytes.

In the present catalogue the plants have been arranged group wise viz., Angiosperms,

Gymnosperms and Pteridophytes. In each of these groups the families

are arranged in alphabetic order and further in each family the species are arranged alphabetically.

With modern IT facilities and the concept of e-herbarium/virtual herbarium coming up, herbaria across the globe have seen a sea change. Consequently, creation of e-herbarium has been initiated at IHBT and for internal data access and management an in-house software **himHIS (Herbarium Information System)** has been developed.

As a future target, in addition to enriching the PLP, it is planned to accomplish the task of herbarium digitization and link it to the web. This not only will help in easy data sharing and dissemination but will foster the over-all goal of bioresource documentation, conservation and management.

New additions to the Flora of HP

1. *Aeginetia indica*
2. *Crassocephalum crepidioides*
3. *Herniaria incana*
4. *Polygonum hydropiper* var. *flaccidum*
5. *Soliva anthemifolia* and
6. *Synedrella vialis*

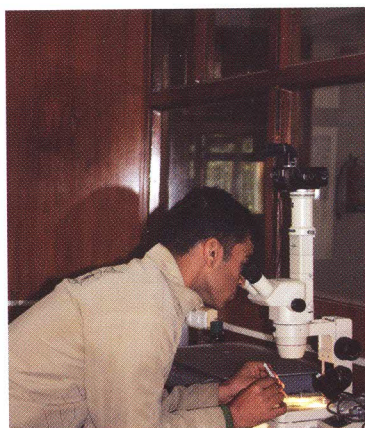
himHIS-The software has been designed using .net in forend and MS- Access in backend. Information on species housed in PLP, number of available specimens of each species, its placement in the almirah, can be queried using this software

Overview of PLP and the Infrastructure Available

Herbarium Catalogue



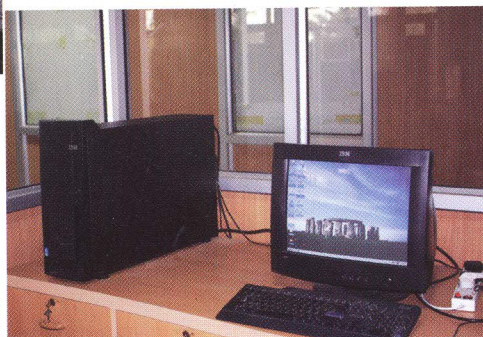
Inside view of herbarium



Studying specimens



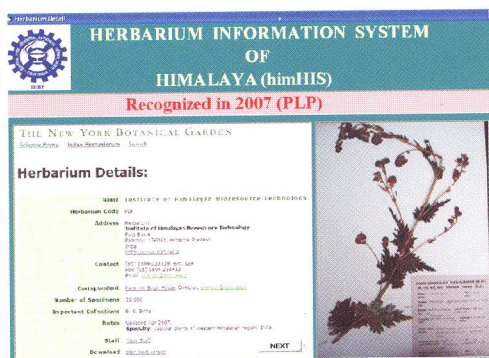
Scanner for digitization of specimens



Server for maintaining e-herbarium



Fumigation chamber for routine maintenance of specimens



In-house software for maintaining and querying information on PLP

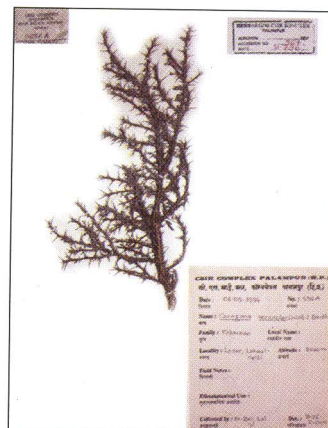
THREATENED AND INTERESTING SPECIMENS HOUSED IN PLP



Aconitum heterophyllum



Betula utilis



Caragana versicolor



Dactylorhiza hatagirea



Hippophae rhamnoides



Picrorhiza kurroa



Podophyllum hexandrum



Polypodium microrhizomum



Thelypteris erubescens

ANGIOSPERMS**Acanthaceae**

1. *Adhatoda zeylanica* Medik.
2. *Barleria cristata* L.
3. *Barleria dichotoma* Roxb.
4. *Barleria strigosa* Willd.
5. *Dicliptera bupleuroides* Nees
6. *Eranthemum pulchellum* Andrew
7. *Goldfussia dalhousiana* Nees
8. *Justicia procumbens* L.
9. *Justicia simplex* D. Don
10. *Lepidagathis cuspidata* Nees
11. *Lepidagathis incurva* Buch.-Ham. ex D. Don
12. *Nelsonia canescens* (Lam.) Sprengel
13. *Rungia pectinata* Nees
14. *Strobilanthes atropurpureus* Nees

Aceraceae

15. *Acer caesium* Wall. ex Brandis
16. *Acer cappadocicum* Gled.

Amaranthaceae

17. *Achyranthes aspera* L.
18. *Achyranthes bidentata* Blume
19. *Aerva sanguinolenta* (L.) Blume
20. *Alternanthera pungens* Humb.
21. *Alternanthera sessilis* (L.) DC.
22. *Amaranthus paniculatus* L.
23. *Amaranthus spinosus* L.
24. *Amaranthus viridis* L.
25. *Cyathula tomentosa* (Roth) Moq.

Amaryllidaceae

26. *Zephyranthes candida* Lindl.

Anacardiaceae

27. *Anacardium occidentale* L.
28. *Lannea coromandelica* (Houtt.) Merr.
29. *Mangifera indica* L.

Apiaceae

30. *Anethum graveolens* L.
31. *Angelica glauca* Edgew.
32. *Apium leptophyllum* (Persoon) F. Muell. ex Benth.
33. *Bunium persicum* (Boiss.) Fedtsch.
34. *Bupleurum falcatum* L.
35. *Bupleurum gracillimum* Klotz.
36. *Bupleurum hamiltonii* Balakr.
37. *Bupleurum himalayense* Klotzsch
38. *Bupleurum jucundum* Kurz.
39. *Bupleurum marginatum* Wall. ex DC.
40. *Carum carvi* L.
41. *Centella asiatica* (L.) Urban
42. *Chaerophyllum aromaticum* L.
43. *Chaerophyllum villosum* Wall. ex DC.
44. *Coriandrum sativum* L.
45. *Ferula jaeschkeana* Vatke
46. *Heracleum lanatum* Michx.
47. *Heracleum pinnatum* C.B. Clarke
48. *Heracleum thomsonii* C.B. Clarke
49. *Hydrocotyle javanica* Thunb.
50. *Hydrocotyle sibthorpioides* Lam.
51. *Ligusticum elatum* (Edgew.) C.B. Clarke
52. *Oenanthe javanica* (Blume) DC.
53. *Pimpinella achilleifolia* (DC.) C. B. Clarke
54. *Pleurospermum brunonis* (DC.) C. B. Clarke
55. *Pleurospermum candollii* (DC.) C. B. Clarke
56. *Pleurospermum stellatum* (D. Don) C. B. Clarke
57. *Pleurospermum stylosum* Benth. ex C.B. Clarke
58. *Psammogeton biternatum* Edgew.
59. *Scandix pecten-veneris* L.
60. *Selinum candollii* DC.
61. *Selinum coniifolium* (Wall. ex DC.) Benth.
62. *Selinum vaginatum* (Edgew.) C.B. Clarke
63. *Vicatia coniifolia* DC.

Apocynaceae

64. *Carissa opaca* Stapf ex Haines
65. *Holarrhena pubescens* (Buch.-Ham.) Wallich ex D. Don
66. *Nerium oleander* L.
67. *Trachelospermum lucidum* (D. Don) K. Schum.
68. *Vallaris solanacea* (Roth) Kuntze.

Aquifoliaceae

69. *Ilex diphyrena* Wall.

Araceae

70. *Acorus calamus* L.
71. *Arisaema flavum* (Forssk.) Schott
72. *Arisaema tortuosum* Wall.
73. *Gonatanthus pumilus* Engl. & Krause
74. *Remusatia vivipara* (Roxb.) Schott

Araliaceae

75. *Hedera nepalensis* Koch

Aristolochiaceae

76. *Aristolochia dilatata* N. E. Brown

Asclepiadaceae

77. *Asclepias curassavica* L.
78. *Cryptolepis buechananii* Roem. & Schult.
79. *Periploca calophylla* (Wight) Falconer
80. *Tylophora hirsuta* (Wall.) Wight & Arn.

Asteraceae

81. *Achillea millefolium* L.
82. *Adenostemma lavenia* (L.) O. Kuntze
83. *Ageratum conyzoides* L.
84. *Ageratum houstonianum* Miller
85. *Ainsliaea aptera* DC.
86. *Ainsliaea latifolia* (D. Don) Sch.-Bip.
87. *Anaphalis busua* DC.
88. *Anaphalis contorta* (D. Don) Hook. f.
89. *Anaphalis nepalensis* (Spreng.) Hand.-Mazz.
90. *Anaphalis royleana* DC.
91. *Anaphalis triplinervis* (Sims.) C. B. Clarke

92. *Anthemis cotula* L.
93. *Artemisia annua* L.
94. *Artemisia biennis* Willd.
95. *Artemisia capillaris* Thunb.
96. *Artemisia dracunculus* L.
97. *Artemisia dubia* Wall. ex Bess.
98. *Artemisia edgeworthii* Balakr.
99. *Artemisia elegantissima* Pamp.
100. *Artemisia gmelinii* Web. ex Stechm.
101. *Artemisia japonica* Thunb.
102. *Artemisia macrocephala* Jacq. ex Bess.
103. *Artemisia maritima* L.
104. *Artemisia myriantha* Wall. ex Bess.
105. *Artemisia nilagirica* (C.B.Clarke) Pamp.
106. *Artemisia persica* Boiss.
107. *Artemisia roxburghiana* Wall. ex Bess.
108. *Artemisia strongylocephala* Pamp.
109. *Artemisia tournefortiana* Reichb.
110. *Artemisia vestita* Wall. ex DC.
111. *Artemisia wallichiana* Bess.
112. *Aster falconeri* (C.B.Clarke) Hutch.
113. *Aster heterochaeta* C.B. Clarke
114. *Aster indamellus* Griers.
115. *Aster molliusculus* (Lindl. ex DC.) C.B.Clarke
116. *Bidens bipinnata* L.
117. *Bidens biternata* (Lour.) Merrill & Sherff
118. *Bidens pilosa* L.
119. *Bidens tripartita* L.
120. *Blumea laciniata* (Roxb.) DC.
121. *Blumea membranacea* DC.
122. *Blumea mollis* (D. Don) Merrill
123. *Blumeopsis flava* (DC.) Edgew.
124. *Brachyactis robusta* Benth.
125. *Brachyactis roylei* (DC.) Wend.
126. *Breea arvensis* (L.) Less.

127. *Carduus edelbergii* Rech. f.
128. *Carpesium nepalense* Less.
129. *Centipeda minima* (L.) A.Br. & Aschers.
130. *Chrysanthemum vulgare* (L.) Bernh.
131. *Cicerbita macrorhiza* (Royle) Beauv.
132. *Cichorium intybus* L.
133. *Cirsium arvense* (L.) Scop.
134. *Cirsium verutum* (D.Don) Spreng.
135. *Cirsium wallichii* DC.
136. *Conyza bonariensis* (L.) Cronq.
137. *Conyza canadensis* (L.) Cronq.
138. *Conyza japonica* (Thunb.) Less. ex DC.
139. *Conyza stricta* Willd.
140. *Cousinia thomsonii* C.B.Clarke
141. *Crassocephalum crepidioides* (Benth.) S. Moore
142. *Crepis flexuosa* (DC) Benth.
143. *Crepis sancta* (L.) Babcock
144. *Dichrocephala chrysanthemifolia* (Blume) DC.
145. *Dichrocephala integrifolia* (L. f.) Kuntze.
146. *Echinops cornigerus* DC.
147. *Eclipta prostrata* L.
148. *Emilia sonchifolia* (L.) DC.
149. *Erigeron acer* L.
150. *Erigeron alpinus* L.
151. *Erigeron annuus* (L.) Pers.
152. *Erigeron borealis* (Vierh.) Simms
153. *Erigeron karvinskianus* DC.
154. *Erigeron multiradiatus* (DC.) Benth. ex C.B. Clarke
155. *Eupatorium adenophorum* Spreng.
156. *Filago arvensis* L.
157. *Filago hurdwarica* (Wall. ex DC.) Wag.
158. *Galinsoga parviflora* Cav.
159. *Galinsoga quadriradiata* Ruiz & Pavon
160. *Gerbera gossypina* (Royle) Beauv.
161. *Gerbera lanuginosa* (DC.) Sch.-Bip.

162. *Gnaphalium hypoleucum* DC.
163. *Gnaphalium luteo-album* L.
164. *Gnaphalium polycaulon* Pers.
165. *Gnaphalium purpureum* L.
166. *Grangea maderaspatana* (L.) Poir.
167. *Heteropappus altaicus* (Willd.) Novopokr.
168. *Heteropappus holohermaphroditus* Grierson
169. *Hieracium raui* Aswal & Malhotra
170. *Hieracium umbellatum* L.
171. *Hieracium vulgatum* Koch
172. *Inula cappa* (Buch.-Ham. ex D. Don) DC.
173. *Inula grandiflora* Willd.
174. *Inula racemosa* Hook. f.
175. *Jurinea dolomiaea* Boiss.
176. *Lactuca dissecta* D. Don
177. *Lactuca dolichophylla* Kitamura
178. *Lactuca lahulensis* Mamgain & Rao
179. *Lactuca orientalis* (Boiss.) Boiss.
180. *Lactuca tatarica* C. A. Mey.
181. *Launaea procumbens* (Roxb.) Ramayya & Rajagopal
182. *Leontopodium alpinum* Cass.
183. *Leontopodium himalayanum* DC.
184. *Leontopodium stracheyi* (Hook.f.) C.B. Clarke ex Hemsl.
185. *Matricaria recutita* L.
186. *Myriactis nepalensis* Less.
187. *Myriactis wallichii* Less.
188. *Parthenium hysterophorus* L.
189. *Pentanema indicum* (L.) Ling
190. *Phagnalon niveum* Edgew.
191. *Picris hieracioides* L.
192. *Prenanthes brunoniana* Wall. ex DC.
193. *Prenanthes violaefolia* Decne.
194. *Saussurea albescens* (DC.) Schultz-Bip.
195. *Saussurea auriculata* (Spreng. ex DC.) Sch.-Bip.
196. *Saussurea bracteata* Decne.

197. *Saussurea caespitosa* Hook. f.
198. *Saussurea ceratocarpa* Decne.
199. *Saussurea costus* (Falc.) Lipsch.
200. *Saussurea glanduligera* Sch.-Bip.
201. *Saussurea gnaphalodes* Sch.-Bip.
202. *Saussurea heteromalla* (D. Don) Hand. - Mazz.
203. *Saussurea jacea* (Klotz.) C.B. Clarke.
204. *Saussurea obvallata* (DC.) Edgew.
205. *Saussurea simpsoniana* (Field. & Gardn.) Lipsch.
206. *Scorzonera virgata* DC.
207. *Senecio desfontainei* Druce
208. *Senecio graciliflorus* DC.
209. *Senecio krascheninnikovii* Schischk.
210. *Senecio laetus* Edgew.
211. *Senecio nudicaulis* Buch.-Ham. ex D. Don
212. *Serratula pallida* DC.
213. *Siegesbeckia orientalis* L.
214. *Silybum marianum* (L.) Gaertn.
215. *Solidago canadensis* L.
216. *Solidago virgaurea* L.
217. *Soliva anthemifolia* (Juss.) R.Br.
218. *Sonchus asper* (L.) Hill
219. *Sonchus brachyotus* DC.
220. *Sonchus oleraceus* L.
221. *Synedrella vialis* (Less.) A. Gray
222. *Tagetes minuta* L.
223. *Tanacetum dolichophyllum* (Kitam.) Kitam.
224. *Tanacetum falconeri* Hook.f.
225. *Tanacetum tibeticum* Hook. f.
226. *Taraxacum officinale* Weber
227. *Tragopogon gracilis* D. Don
228. *Tragopogon pratense* L.
229. *Tricholepis elongata* DC.
230. *Tridax procumbens* L.
231. *Tussilago farfara* L.

- 232. *Vernonia anthelmintica* (L.) Willd.
- 233. *Vernonia cinerea* (L.) Less.
- 234. *Waldheimia glabra* (Decne.) Regel
- 235. *Waldheimia tomentosa* (Decne.) Regel
- 236. *Xanthium indicum* Koenig
- 237. *Youngia glauca* Edgew.
- 238. *Youngia japonica* (L.) DC.

Balsaminaceae

- 239. *Impatiens amphorata* Edgew.
- 240. *Impatiens racemosa* DC.
- 241. *Impatiens roylei* Walp.
- 242. *Impatiens scabrida* DC.
- 243. *Impatiens thomsonii* Hook. f.

Berberidaceae

- 244. *Berberis aristata* DC.
- 245. *Berberis asiatica* Roxb. ex DC.
- 246. *Berberis chitria* Edwards
- 247. *Berberis coriaria* Royle ex Lindl.
- 248. *Berberis jaeschkeana* Schneid.
- 249. *Berberis lycium* Royle
- 250. *Berberis pachyacantha* Koehne
- 251. *Berberis pseudoumbellata* Parker

Betulaceae

- 252. *Alnus nitida* Endl.
- 253. *Betula utilis* D. Don
- 254. *Corylus jacquemontii* Decne.

Biebersteiniaceae

- 255. *Biebersteinia odora* Steph. ex Fisch.

Bignoniaceae

- 256. *Incarvillea arguta* Royle
- 257. *Jacaranda mimosifolia* D. Don
- 258. *Tecoma capensis* Lindl.
- 259. *Tecoma stans* (L.) Juss. ex Kunth

Bombacaceae

- 260. *Bombax ceiba* L.

Boraginaceae

261. *Arnebia benthamii* (Wall. ex G. Don) Johnston
262. *Arnebia euchroma* (Royle) Johnston
263. *Arnebia guttata* Bunge
264. *Bothriospermum tenellum* (Hornem.) Fisch. & E. Mey.
265. *Cynoglossum glochidiatum* Wall. ex Benth.
266. *Cynoglossum lanceolatum* Forssk.
267. *Cynoglossum nervosum* Benth. ex C.B. Clarke
268. *Cynoglossum zeylanicum* Thunb.
269. *Eritrichium canum* (Benth.) Kitam.
270. *Hackelia uncinata* (Royle ex Benth.) Fischer
271. *Heliotropium strigosum* Willd.
272. *Lappula barbata* (M. Bieb.) Gurcke
273. *Lappula microcarpa* (Ledeb.) Gurcke
274. *Lasiocaryum diffusum* (Brand) Johnston
275. *Lasiocaryum munroi* (C.B. Clarke) Johnston
276. *Lindelofia anchusoides* (Lindl.) Lehm.
277. *Lindelofia longiflora* (Royle ex Benth.) Baill.
278. *Myosotis silvatica* Ehrh. ex Hoffm.
279. *Paracaryum thomsonii* C.B. Clarke

Brassicaceae

280. *Alliaria petiolata* (M. Bieb.) Cavara & Grande
281. *Arabidopsis himalaica* (Edgew.) O.E.Schulz.
282. *Arabidopsis mollissima* (C.A.Mey.) N. Busch.
283. *Arabidopsis stricta* (Camb.) N. Busch.
284. *Arabidopsis thaliana* (L.) Heynh.
285. *Arabis glabra* (L.) Crantz.
286. *Arabis nova* Vill.
287. *Arabis tibetica* Hook. f. & Thoms.
288. *Barbarea vulgaris* R. Br.
289. *Brassica juncea* L.
290. *Brassica rapa* (L.) ssp. *campestris* (L.) Clapham
291. *Capsella bursa-pastoris* (L.) Medik.
292. *Cardamine flexuosa* Withering
293. *Cardamine impatiens* L.

294. *Chorispora sabulosa* Camb.
295. *Christolea crassifolia* Camb.
296. *Coronopus didymus* (L.) J. Smith
297. *Descurainia sophia* (L.) Webb. & Berth.
298. *Draba lasiophylla* Royle
299. *Draba setosa* Royle
300. *Erysimum hieraciifolium* L.
301. *Erysimum melicentae* Dunn
302. *Euclidium tenuissimum* (Pall.) B.Fedtsch.
303. *Lepidium apetalum* Willd.
304. *Lepidium latifolium* L.
305. *Lepidium virginicum* L.
306. *Matthiola flavida* Boiss.
307. *Rorippa nasturtium-aquaticum* (L.) Hayek.
308. *Sisymbrium irio* L.
309. *Sisymbrium orientale* L.
310. *Thlaspi alpestre* L.
311. *Thlaspi cardiocarpum* Hook.f. & Thoms.
312. *Thlaspi kotschyannum* Boiss. & Hohen.
313. *Thlaspi montanum* L.
314. *Turritis glabra* L.

Buddlejaceae

315. *Buddleja asiatica* Lour.
316. *Buddleja crispa* Benth.

Burseraceae

317. *Boswellia serrata* Roxb. ex Colebr.

Buxaceae

318. *Buxus wallichiana* Baill.
319. *Sarcococca saligna* (D. Don) Muell.-Arg.

Cactaceae

320. *Opuntia elatior* Mill.

Caesalpiniaceae

321. *Bauhinia purpurea* L.
322. *Bauhinia variegata* L.
323. *Cassia fistula* L.

324. *Cassia floribunda* Cav.

325. *Cassia mimosoides* L.

326. *Cassia occidentalis* L.

327. *Cassia pumila* Lam.

Campanulaceae

328. *Campanula latifolia* L.

329. *Campanula pallida* Wall.

330. *Codonopsis clematidea* (Schrenk) C.B. Clarke

331. *Codonopsis ovata* Benth.

332. *Cyananthus lobatus* Wall. ex Benth.

333. *Lobelia heyneana* Roem. & Schult.

Cannabinaceae

334. *Cannabis sativa* L.

Cannaceae

335. *Canna indica* L.

336. *Canna orientalis* Roscoe

Capparidaceae

337. *Capparis spinosa* L.

Caprifoliaceae

338. *Abelia triflora* R.Br. ex Wall.

339. *Lonicera angustifolia* Wall. ex DC.

340. *Lonicera asperifolia* Hook.f. & Thoms.

341. *Lonicera caucasica* Pall.

342. *Lonicera heterophylla* Decne.

343. *Lonicera hypoleuca* Decne.

344. *Lonicera japonica* Thunb.

345. *Lonicera myrtillus* Hook. f. & Thoms.

346. *Lonicera obovata* Royle ex Hook.f. & Thoms.

347. *Lonicera quinquelocularis* Hardw.

348. *Lonicera spinosa* (Jacq. ex Decne.) Walp.

349. *Viburnum cotinifolium* D. Don

350. *Viburnum erubescens* Wall. ex DC.

351. *Viburnum nervosum* D. Don

Caryophyllaceae

352. *Arenaria festucoides* Benth.

353. *Arenaria orbiculata* Royle ex Edgew. & Hook. f.
354. *Arenaria serpyllifolia* L.
355. *Arenaria tenuifolia* L.
356. *Cerastium cerastoides* (L.) Britton
357. *Cerastium vulgatum* L.
358. *Cucubalus bacciferus* L.
359. *Dianthus angulatus* Royle ex Benth.
360. *Gypsophila cerastioides* D. Don
361. *Herniaria incana* L.
362. *Minuartia kashmirica* (Edgew.) Mattf.
363. *Polycarpon prostratum* (Forssk.) Asch. & Schweinf. ex Asch.
364. *Silene falconeriana* Royle ex Benth.
365. *Silene moorcroftiana* Royle ex Benth.
366. *Silene persica* Boiss.
367. *Silene vulgaris* (Moench) Garcke
368. *Spergula arvensis* L.
369. *Stellaria crispata* Wall. ex Edgew. & Hook. f.
370. *Stellaria latifolia* Benth.
371. *Stellaria media* L.
372. *Stellaria monosperma* Buch.-Ham. ex D. Don

Celastraceae

373. *Celastrus paniculatus* Willd.
374. *Euonymus fimbriatus* Wall.

Chenopodiaceae

375. *Axyris amaranthoides* L.
376. *Chenopodium album* L.
377. *Chenopodium ambrosioides* L.
378. *Chenopodium botrys* L.
379. *Chenopodium foliosum* (Moench) Asch.
380. *Chenopodium murale* L.
381. *Krascheninnikovia ceratoides* (L.) Guelden.
382. *Salsola collina* Pall.

Combretaceae

383. *Terminalia alata* Heyne ex. Roth
384. *Terminalia arjuna* (Roxb. ex DC.) Wight

385. *Terminalia chebula* Retz.

Commelinaceae

386. *Commelina benghalensis* L.

387. *Commelina hasskarlii* C. B. Clarke

388. *Cyanotis cristata* (L.) Sch.f.

389. *Murdannia nudiflora* L.

390. *Murdannia spirata* (L.) Bruckn.

391. *Tonningia axillaris* (L.) Kuntze.

Convolvulaceae

392. *Convolvulus arvensis* L.

393. *Evolvulus alsinoides* L.

394. *Ipomoea cairica* (L.) Sweet

395. *Ipomoea carnea* Jack.

396. *Ipomoea eriocarpa* R. Br.

397. *Ipomoea nil* (L.) Roth

398. *Ipomoea palmata* Forssk.

399. *Ipomoea purpurea* (L.) Roth

Cordiaceae

400. *Ehretia acuminata* R. Br.

401. *Ehretia laevis* Roxb.

Crassulaceae

402. *Kalanchoe integra* (Medik.) Kuntze.

403. *Rhodiola heterodonta* (Hook. f. & Thoms.) A. Boriss.

404. *Rhodiola quadrifida* (Pall.) Fisch. & Mey.

405. *Rhodiola sinuata* Fu

406. *Rhodiola tibetica* (Hook. f. & Thoms.) Fu

407. *Rosularia adenotricha* (Wall. ex Edgew.) Jansson

408. *Rosularia alpestris* (Kar. & Kir.) A. Boriss.

409. *Sedum ewersii* Ledeb.

410. *Sedum multicaule* Wall. ex Lindl.

411. *Sedum oreades* (Decne.) R.Hamet

Cucurbitaceae

412. *Cucumis hardwickii* Royle

413. *Mukia maderaspatana* (L.) M.Roem.

414. *Solena amplexicaulis* (Lam.) Gandhi

415. *Trichosanthes dioica* Roxb.

Cuscutaceae

416. *Cuscuta chinensis* Lam.
417. *Cuscuta planiflora* Tenore
418. *Cuscuta reflexa* Roxb.

Cyperaceae

419. *Bulbostylis densa* (Wall.) Hand.-Mazz.
420. *Carex fedia* Ness
421. *Carex obscura* Nees
422. *Carex orbicularis* Boott
423. *Carex setigera* D. Don
424. *Cyperus alulatus* Kern.
425. *Cyperus compressus* L.
426. *Cyperus cuspidatus* HBK
427. *Cyperus cyperoides* (L.) O. Kuntze
428. *Cyperus difformis* L.
429. *Cyperus exaltatus* Retz.
430. *Cyperus iria* L.
431. *Cyperus kyllingia* Endl.
432. *Cyperus niveus* Retz.
433. *Cyperus nutans* Vahl
434. *Cyperus pilosus* Vahl
435. *Cyperus rotundus* L.
436. *Cyperus tenuispica* Steud.
437. *Eleocharis palustris* (L.) R. Br.
438. *Eriophorum comosum* (Wall.) Wall. ex Nees
439. *Fimbristylis dichotoma* (L.) Vahl
440. *Fimbristylis littoralis* Gaudich.
441. *Fimbristylis schoenoides* (Vahl) Kunth
442. *Fuirena ciliaris* (L.) Roxb.
443. *Isolepis setacea* (L.) R. Br.
444. *Kobresia nitens* C.B. Clarke
445. *Kobresia royleana* (Nees) Boeck.
446. *Kyllinga brevifolia* Rottb.
447. *Kyllinga nemoralis* Dandy ex Hutch. & Dalziel

448. *Kyllinga squamulata* Vahl
 449. *Lipocarpa chinensis* (Osb.) Kern
 450. *Mariscus paniceus* (Rottb.) Vahl
 451. *Pycneus flavidus* (Retz.) T. Koyama
 452. *Pycneus sanguinolentus* (Vahl) Nees
 453. *Scirpus pumilus* Vahl
 454. *Scirpus squarrosus* L.

Datiscaceae

455. *Datisca cannabina* L.

Dioscoreaceae

456. *Dioscorea bulbifera* L.
 457. *Dioscorea deltoidea* Wall.

Dipsacaceae

458. *Dipsacus inermis* Wall.
 459. *Scabiosa speciosa* Royle

Dipterocarpaceae

460. *Shorea robusta* Roxb. ex Gaertn.
 461. *Vateria indica* L.

Elaeagnaceae

462. *Elaeagnus parvifolia* Wall. ex Royle
 463. *Hippophae rhamnoides* L.
 464. *Hippophae salicifolia* D. Don
 465. *Hippophae tibetana* Schltdl.

Ericaceae

466. *Cassiope fastigiata* (Wall.) D. Don
 467. *Gaultheria nummularioides* D. Don
 468. *Lyonia ovalifolia* (Wall.) Drude
 469. *Rhododendron anthopogon* D. Don
 470. *Rhododendron arboreum* Smith
 471. *Rhododendron campanulatum* D. Don

Eriocaulaceae

472. *Eriocaulon nepalense* Presl. ex Bong.

Euphorbiaceae

473. *Aleurites moluccana* Willd.
 474. *Arachne cordifolia* (Decne.) Hurusawa

475. *Croton bonplandianum* Baill.
476. *Euphorbia helioscopia* L.
477. *Euphorbia heterophylla* L.
478. *Euphorbia hirta* L.
479. *Euphorbia hispida* Boiss.
480. *Euphorbia hypericifolia* L.
481. *Euphorbia maddenii* Boiss.
482. *Euphorbia pilosa* L.
483. *Euphorbia prolifera* Buch.-Ham. ex D. Don
484. *Euphorbia prostrata* Ait.
485. *Euphorbia pulcherrima* Willd. ex Klotzsch
486. *Euphorbia thymifolia* L.
487. *Mallotus philippinensis* (Lam.) Muell.-Arg.
488. *Phyllanthus emblica* L.
489. *Phyllanthus urinaria* L.
490. *Ricinus communis* L.
491. *Sapium sebiferum* (Michx.) Roxb.

Fabaceae

492. *Argyrolobium roseum* (Camb.) Jaub.
493. *Astragalus amherstianus* Royle ex Benth.
494. *Astragalus bicuspidis* Fisch.
495. *Astragalus candolleanus* Royle ex Benth.
496. *Astragalus graveolens* Buch.-Ham. ex Benth.
497. *Astragalus himalayanus* Klotz.
498. *Astragalus leucocephalus* Grah. ex Benth.
499. *Astragalus malacophyllus* Benth. ex Bunge
500. *Astragalus munroi* Benth. ex Bunge
501. *Astragalus oplites* Benth. ex Parker
502. *Astragalus rhizanthus* Royle ex Benth.
503. *Astragalus strobiliferus* Royle ex Benth.
504. *Astragalus thomsonianus* Benth.
505. *Astragalus tribuloides* Delile
506. *Astragalus webbianus* Grah. ex Benth.
507. *Caragana brevispina* Royle ex Benth.
508. *Caragana gerardiana* Royle ex Benth.

509. *Caragana versicolor* (Wall.) Benth.
510. *Cicer arietinum* L.
511. *Cicer microphyllum* Benth.
512. *Colutea nepalensis* Sims.
513. *Crotalaria albida* Heyne. ex Roth
514. *Crotalaria hirsuta* Willd.
515. *Crotalaria pallida* Aiton
516. *Crotalaria prostrata* Rottl.
517. *Crotalaria sessiliflora* L.
518. *Dalbergia sissoo* Roxb.
519. *Desmodium elegans* DC.
520. *Desmodium heterocarpon* (L.) DC.
521. *Desmodium laxiflorum* DC.
522. *Desmodium microphyllum* (Thunb.) DC.
523. *Desmodium motorium* (Houtt.) Merr.
524. *Desmodium nutans* Wall. ex Hook.
525. *Desmodium triflorum* (L.) DC.
526. *Desmodium velutinum* (Willd.) DC
527. *Flemingia prostrata* Roxb.
528. *Flemingia strobilifera* (L.) R.Br.
529. *Indigofera cassioides* Rottl. ex DC.
530. *Indigofera cedrorum* Dunn
531. *Indigofera dosua* Buch.-Ham.ex D.Don.
532. *Indigofera hebepetala* Benth. ex Baker
533. *Indigofera heterantha* Wall. ex Brandis
534. *Lathyrus aphaca* L.
535. *Lathyrus luteus* Baker.
536. *Lathyrus pratensis* L.
537. *Lathyrus sativus* L.
538. *Lathyrus sphaericus* Retz.
539. *Lespedeza elegans* Camb.
540. *Lespedeza juncea* (L.f.) Pers.
541. *Lotus corniculatus* L.
542. *Medicago falcata* L.
543. *Medicago lupulina* L.

544. *Medicago sativa* L.
545. *Melilotus alba* Medik. ex Desr.
546. *Melilotus indica* (L.) Allioni
547. *Melilotus officinalis* (L.) Pall.
548. *Oxytropis lapponica* (Wahl) Gay
549. *Oxytropis microphylla* DC.
550. *Oxytropis tatarica* Camb. ex Bunge
551. *Oxytropis thomsoni* Benth. ex Bunge
552. *Pisum sativum* L.
553. *Robinia pseudo-acacia* L.
554. *Sophora mollis* (Royle) Grah. ex Baker
555. *Tephrosia purpurea* (L.) Pers.
556. *Thermopsis barbata* Benth.
557. *Thermopsis inflata* Camb.
558. *Trifolium pratense* L.
559. *Trifolium repens* L.
560. *Trifolium tomentosum* L.
561. *Trigonella emodi* Benth.
562. *Trigonella gracilis* Benth.
563. *Trigonella pubescens* Edgew. ex Baker
564. *Vicia hirsuta* (L.) S. F. Gray
565. *Vicia sativa* L.
566. *Vicia tetrasperma* (L.) Moench
567. *Zornia gibbosa* Span.

Fagaceae

568. *Quercus baloot* Griff.
569. *Quercus floribunda* Lindl. ex Rehder
570. *Quercus ilex* L.
571. *Quercus leucotrichophora* A. Camus
572. *Quercus semecarpifolia* J. E. Smith

Flacourtiaceae

573. *Casearia tomentosa* Roxb.
574. *Casearia elliptica* Willd.
575. *Hydnocarpus alpina* Wight
576. *Hydnocarpus laurifolia* (Denn.) Sleum.

577. *Xylosma longifolium* Clos.

Fumariaceae

578. *Corydalis cornuta* Royle

579. *Corydalis diphylla* Wall.

580. *Corydalis govaniana* Wall.

581. *Corydalis meifolia* Wall.

582. *Corydalis moorcroftiana* Wall. ex Hook. f. & Thoms.

Gentianaceae

583. *Gentiana algida* Pall.

584. *Gentiana argentea* (D. Don) Griseb.

585. *Gentiana marginata* (D. Don) Griseb.

586. *Gentiana nubigena* Edgew.

587. *Gentiana pedicellata* (D. Don) Wall.

588. *Gentiana tianschanica* Rupr.

589. *Gentiana tubiflora* (D. Don) Griseb.

590. *Gentiana venusta* (D. Don) Griseb.

591. *Gentianella maddenii* (C. B. Clarke) Airy-Shaw

592. *Gentianella moorcroftiana* (Wall. ex G. Don) Airy Shaw

593. *Gentianella tenella* (Rottb.) Borner

594. *Gentianopsis detonsa* (Rottb.) Ma

595. *Gentianopsis paludosa* (Hook. f.) Ma

596. *Jaeschkea oligosperma* (Griseb.) Knobl.

597. *Lomatogonium carinthiacum* (Wulf.) A.Br.

598. *Swertia angustifolia* Buch.-Ham ex D. Don

599. *Swertia ciliata* (G. Don) Burt

600. *Swertia cordata* (G. Don) C. B. Clarke

601. *Swertia petiolata* Royle ex D. Don

Geraniaceae

602. *Erodium cicutarium* (L.) L'Hér. ex Aiton

603. *Geranium aconitifolium* L Herit

604. *Geranium collinum* Steph. ex Willd.

605. *Geranium nepalense* Sweet

606. *Geranium ocellatum* Camb.

607. *Geranium pratense* L.

608. *Geranium robertianum* L.

609. *Geranium rotundifolium* L.
 610. *Geranium sibiricum* L.
 611. *Geranium wallichianum* D. Don ex Sweet
 612. *Pelargonium hortorum* L.H. Bailey

Grossulariaceae

613. *Ribes alpestre* Decne.
 614. *Ribes orientale* Desf.

Haemodoraceae

615. *Aletris pauciflora* (Klotz.) Hand.-Mazz.

Hippocastanaceae

616. *Aesculus indica* (Colebr. ex Camb.) Hook.

Hippuridaceae

617. *Hippuris vulgaris* L.

Hydrangeaceae

618. *Deutzia compacta* Craib
 619. *Deutzia staminea* R. Br.

Hypericaceae

620. *Hypericum choisianum* Wall. ex N. Robson
 621. *Hypericum oblongifolium* Choisy

Hypoxidaceae

622. *Hypoxis aurea* Lour.

Iridaceae

623. *Iris ensata* Thunb.
 624. *Iris kumaonensis* D. Don ex Royle
 625. *Iris milesii* Foster

Juglandaceae

626. *Juglans regia* L.

Juncaceae

627. *Juncus articulatus* L.
 628. *Juncus himalensis* Klotz.
 629. *Juncus membranaceus* Royle ex D. Don

Lamiaceae

630. *Ajuga bracteosa* Benth.
 631. *Ajuga parviflora* Benth.
 632. *Anisomeles indica* (L.) Kuntze

633. *Clinopodium umbrosum* (M. Bieb.) C. Koch
634. *Clinopodium vulgare* L.
635. *Colebrookea oppositifolia* J. E. Smith
636. *Coleus vettiveroides* K.C. Jacob
637. *Craniotome furcata* (L.) O. Kuntze
638. *Dracocephalum heterophyllum* Benth.
639. *Elsholtzia ciliata* (Thunb.) Hylander
640. *Elsholtzia eriostachya* (Benth.) Benth.
641. *Elsholtzia fruticosa* (D. Don) Rehder
642. *Elsholtzia pilosa* (Benth.) Benth.
643. *Hyssopus officinalis* L.
644. *Leonurus cardiaca* L.
645. *Leucas cephalotes* (Roth) Spreng.
646. *Leucas hyssopifolia* Benth.
647. *Leucas lanata* Benth.
648. *Mentha longifolia* (L.) Huds.
649. *Mentha sylvestris* L.
650. *Micromeria biflora* (Buch.-Ham.ex D.Don) Benth.
651. *Nepeta discolor* Royle ex Benth.
652. *Nepeta erecta* (Benth.) Benth.
653. *Nepeta eriostachya* Benth.
654. *Nepeta floccosa* Benth.
655. *Nepeta glutinosa* Benth.
656. *Nepeta graciliflora* Benth.
657. *Nepeta hindostana* (Roth) Haines
658. *Nepeta laevigata* (D. Don) Hand.-Mazz.
659. *Ocimum americanum* L.
660. *Origanum vulgare* L.
661. *Orthosiphon pallidus* Royle
662. *Phlomis bracteosa* Royle ex Benth.
663. *Plectranthus japonicus* (Burm.f.) Koidz.
664. *Plectranthus mollis* (Ait.) Spreng.
665. *Plectranthus rugosus* Wall. ex Benth.
666. *Pogostemon benghalense* (Burm. f.) Kuntze
667. *Prunella vulgaris* L.

668. *Roylea cinerea* (D.Don) Baill.
669. *Salvia coccinea* Buch'hoz ex Etlinger
670. *Salvia leucantha* Cav.
671. *Salvia moorcroftiana* Wall. ex Benth.
672. *Salvia mukerjeea* Bennet & Raizada
673. *Salvia nubicola* Wall. ex Sw.
674. *Scutellaria repens* Buch.-Ham. ex D. Don
675. *Scutellaria scandens* Buch.-Ham. ex D. Don
676. *Stachys melissaefolia* Benth.
677. *Thymus linearis* Benth.

Lauraceae

678. *Cinnamomum camphora* Nees & Eberm.
679. *Cinnamomum tamala* (Buch.-Ham.) Nees & Eberm.
680. *Litsea umbrosa* Nees
681. *Machilus odoratissima* Nees

Liliaceae

682. *Allium auriculatum* Kunth
683. *Allium caeruleum* Pall.
684. *Allium carolinianum* DC.
685. *Allium jacquemontii* Kunth
686. *Asparagus adscendens* Buch.-Ham. ex Roxb.
687. *Asparagus filicinus* Buch.-Ham. apud D. Don
688. *Eremurus himalaicus* Baker
689. *Gagea lutea* (L.) Ker-Gawl.
690. *Nomocharis nana* (Koltz.) E.H. Wilson
691. *Notholirion thomsonianum* (Royle) Stapf
692. *Polygonatum geminiflorum* Decne.
693. *Polygonatum multiflorum* (L.) All.
694. *Polygonatum verticillatum* (L.) All.
695. *Smilacina pallida* Royle
696. *Trillium govanianum* Wall. ex Don

Linaceae

697. *Linum perenne* L.
698. *Linum usitatissimum* L.
699. *Reinwardtia trigyna* (Roxb.) Planch.

Lythraceae

700. *Rotala rotundifolia* (Roxb.) Koehne
 701. *Woodfordia fruticosa* (L.) Kurz

Malvaceae

702. *Abutilon indicum* (L.) Sweet
 703. *Alcea rosea* L.
 704. *Hibiscus syriacus* L.
 705. *Malva neglecta* Wall.
 706. *Malva verticillata* L.
 707. *Malvastrum coromandelianum* (L.) Garcke
 708. *Sida cordata* (Burm.f.) Borss.
 709. *Sida rhombifolia* L.
 710. *Urena lobata* L.

Melastomataceae

711. *Osbeckia stellata* Wall. ex D. Don

Meliaceae

712. *Melia azedarach* L.
 713. *Toona ciliata* M. Roem.
 714. *Toona hexandra* (Wall. ex Roxb.) M. Roem.

Menispermaceae

715. *Cissampelos pareira* L.
 716. *Stephania elegans* Hook. f. & Thoms.
 717. *Stephania glabra* (Roxb.) Miers
 718. *Stephania gracilentia* Miers

Mimosaceae

719. *Acacia catechu* (L.f.) Willd.
 720. *Acacia nilotica* (L.) Willd. ex Delile
 721. *Albizia chinensis* (Osbeck) Merr.
 722. *Leucaena leucocephala* (Lam.) De Wit
 723. *Mimosa pudica* L.

Molluginaceae

724. *Glinus lotoides* L.
 725. *Mollugo pentaphylla* L.

Moraceae

726. *Ficus heterophylla* L.f.

727. *Ficus benghalensis* L.
 728. *Ficus hederacea* Roxb.
 729. *Ficus hispida* L.
 730. *Ficus palmata* Forssk.
 731. *Ficus religiosa* L.
 732. *Ficus sarmentosa* Buch.-Ham. ex J. E. Smith
 733. *Ficus scandens* Roxb.
 734. *Ficus subincisa* Buch.-Ham. ex J.E. Smith
 735. *Morus alba* L.

Morinaceae

736. *Morina coulteriana* Royle
 737. *Morina longifolia* Wall. ex DC.

Myricaceae

738. *Myrica esculenta* Buch.-Ham. ex D. Don

Myrsinaceae

739. *Maesa indica* Wall.
 740. *Myrsine africana* L.

Myrtaceae

741. *Callistemon citrinus* (Curtis) Skeels
 742. *Syzygium cumini* (L.) Skeels

Nyctaginaceae

743. *Boerhavia diffusa* L.
 744. *Mirabilis jalapa* L.

Olacaceae

745. *Olax scandens* Roxb.

Oleaceae

746. *Fraxinus xanthoxyloides* (G. Don) DC.
 747. *Jasminum dispernum* Wall.
 748. *Jasminum humile* L.
 749. *Jasminum multiflorum* (Burm. f.) Andrews
 750. *Jasminum officinale* L.

Onagraceae

751. *Epilobium angustifolium* L.
 752. *Epilobium chitralense* Raven
 753. *Epilobium clarkeanum* Haussk.

754. *Epilobium cylindricum* D. Don
 755. *Epilobium hirsutum* L.
 756. *Epilobium latifolium* L.
 757. *Epilobium minutiflorum* Haussk.
 758. *Epilobium roseum* Schreb.
 759. *Epilobium royleanum* Haussk.
 760. *Oenothera rosea* L' Herit.
 761. *Raimannia drummondii* (Hook.) Rose

Orchidaceae

762. *Cephalanthera ensifolia* L.C. Rich.
 763. *Dactylorhiza hatagirea* (D. Don) Soo
 764. *Epipactis helleborine* (L.) Crantz
 765. *Goodyera repens* (L.) R. Br.

Orobanchaceae

766. *Aeginetia indica* L.
 767. *Lathraea squamaria* L.
 768. *Orobanche alba* Stephen ex Willd.

Oxalidaceae

769. *Oxalis acetosella* L.
 770. *Oxalis corniculata* L.
 771. *Oxalis corymbosa* DC.
 772. *Oxalis dehradunensis* Raizada

Papaveraceae

773. *Argemone mexicana* L.
 774. *Meconopsis aculeata* Royle
 775. *Papaver dubium* L.
 776. *Papaver nudicaule* L.

Parnassiaceae

777. *Parnassia laxmanni* Pall. ex Schult.
 778. *Parnassia nubicola* Wall. ex. Royle
 779. *Parnassia pusilla* Wall. ex Arn.

Passifloraceae

780. *Passiflora edulis* Sims.

Piperaceae

781. *Piper mullesua* D. Don



782. *Piper peepuloides* Roxb.

Plantaginaceae

783. *Plantago depressa* Willd.

784. *Plantago erosa* Wall.

785. *Plantago himalaica* Pilger

786. *Plantago lanceolata* L.

787. *Plantago major* L.

Platanaceae

788. *Platanus orientalis* L.

Plumbaginaceae

789. *Plumbago zeylanica* L.

Poaceae

790. *Acrachne racemosa* (Roem. & Schult.) Ohwi

791. *Agrostis pilosula* Trin.

792. *Agrostis stolonifera* L.

793. *Agrostis vinealis* Schreber

794. *Alloteropsis cimicina* (L.) Stapf

795. *Alopecurus aequalis* Sobol.

796. *Andropogon pumilus* Roxb.

797. *Apluda mutica* L.

798. *Arthraxon lancifolius* (Trin.) Hochst.

799. *Arundinella benghalensis* (Spreng.) Druce

800. *Arundinella nepalensis* Trin.

801. *Arundo donax* L.

802. *Avena fatua* L.

803. *Bambusa arundinacea* (Retz.) Willd.

804. *Bambusa nutans* Wall. ex Munro

805. *Bothriochloa pertusa* (L.) A. Camus

806. *Brachypodium distachyon* (L.) Beauv.

807. *Brachypodium sylvaticum* (Hudson) P.Beauv.

808. *Briza minor* L.

809. *Bromus japonicus* Thunb.

810. *Bromus pectinatus* Thunb.

811. *Bromus unioloides* Kunth.

812. *Calamagrostis emodensis* Griseb.

813. *Calamagrostis pseudophragmites* (Hall.f.) Koel.
814. *Capillipedium assimile* Steud.
815. *Chloris dolichostachya* Lagasca
816. *Chrysopogon fulvus* (Spreng.) Chiov.
817. *Chrysopogon serrulatus* L.
818. *Coix lacryma-jobi* L.
819. *Cymbopogon citratus* (DC.) Stapf
820. *Cymbopogon flexuosus* (Nees) Wats.
821. *Cymbopogon jawarancusa* (Jones) Schult.
822. *Cymbopogon khasianus* (Hack.) Stapf
823. *Cymbopogon martinii* (Roxb.) W. Watson
824. *Cymbopogon pendulus* (Nees ex Steud.) W. Watson
825. *Cynodon dactylon* (L.) Pers.
826. *Dactylis glomerata* L.
827. *Danthonia cachemyriana* Jaub. & Spach
828. *Dendrocalamus hamiltonii* Nees & Arn.
829. *Dendrocalamus strictus* Nees
830. *Desmostachya bipinnata* (L.) Stapf
831. *Dichanthium annulatum* (Forssk.) Stapf
832. *Digitaria adscendens* (HBK) Henr.
833. *Digitaria stricta* Roth
834. *Echinochloa colona* (L.) Link.
835. *Echinochloa crus-galli* (L.) P. Beauv.
836. *Eleusine compressa* (Forssk.) Asch. & Schweinf. ex C. Christ.
837. *Eleusine indica* (L.) Gaertn.
838. *Elymus dahuricus* Turcz. ex Griseb.
839. *Elymus nutans* Griseb.
840. *Elymus repens* (L.) Gould
841. *Elymus schugnanicus* (Nevski) Tzvelev
842. *Elymus semicostatus* (Nees ex Steud.) Melderis
843. *Eragrostis atrovirens* (Desf.) Trin.
844. *Eragrostis curvula* (Schard.) Nees
845. *Eragrostis gangetica* (Roxb.) Steud.
846. *Eragrostis nigra* Nees ex Steud.
847. *Eragrostis tenella* (L.) P. Beauv.

848. *Eragrostis unioides* (Retz.) Nees ex Steud.
849. *Eulalia leschenaultiana* (Decne.) Ohwi
850. *Eulalia trispicata* (Schantz.) Henrard
851. *Eulaliopsis binata* (Retz.) Hubbard
852. *Festuca valesiaca* Schlecht. ex Gaud.
853. *Helictotrichon asperum* (Munro) Bor
854. *Helictotrichon virescens* (Nees ex Steud.) Henr.
855. *Hemarthria compressa* (L.f.) R. Br.
856. *Heteropogon contortus* (L.) P. Beauv.
857. *Imperata cylindrica* (L.) Raeusch.
858. *Isachne albens* Trin.
859. *Koeleria macrantha* (Ledeb.) Schult.
860. *Leptochloa chinensis* (L.) Nees
861. *Leymus secalinus* (Georgi) Tzvelev
862. *Lolium temulentum* L.
863. *Melica persica* Kunth
864. *Microstegium ciliatum* (Trin.) A. Camus
865. *Oplismenus burmannii* (Retz.) P. Beauv.
866. *Oplismenus compositus* (L.) P. Beauv.
867. *Oryzopsis microcarpa* Pilg.
868. *Panicum paludosum* Roxb.
869. *Panicum psilopodium* Trin.
870. *Paspalidium flavidum* (Retz.) A. Camus
871. *Paspalum dilatatum* Poir.
872. *Paspalum paspalodes* (Michx.) Scribn.
873. *Paspalum scrobiculatum* L.
874. *Pennisetum flaccidum* Griseb.
875. *Pennisetum lanatum* Klotz.
876. *Pennisetum orientale* L.
877. *Pennisetum purpureum* Sch.
878. *Phacelurus speciosus* Hubbard
879. *Phalaris minor* Retz.
880. *Phleum alpinum* L.
881. *Phragmites karka* (Retz.) Trin. ex Steud.
882. *Piptatherum gracile* Mez.

883. *Piptatherum munroi* (Stapf) Mez
884. *Poa annua* L.
885. *Poa lahulensis* Bor
886. *Poa supina* Schrad.
887. *Pogonatherum paniceum* (Lam.) Hack.
888. *Polypogon fugax* Nees ex Steud.
889. *Polypogon monspeliensis* (L.) Desf.
890. *Saccharum narenga* (Nees ex Steud.) Hack.
891. *Saccharum rufipilum* Steud.
892. *Saccharum spontaneum* L.
893. *Setaria glauca* (L.) P. Beauv.
894. *Setaria homonyma* (Steud.) Chao.
895. *Setaria intermedia* Roem. & Schult.
896. *Setaria palmifolia* (Koen.) Stapf
897. *Setaria paniculifera* (Steud.) Fourn.
898. *Sinarundinaria falcata* (Nees) Chao. & Ren.
899. *Sorghum nitidum* (Vahl) Pers.
900. *Sporobolus diander* (Retz.) P. Beauv.
901. *Sporobolus indicus* (L.) R. Br.
902. *Sporobolus piliferus* (Trin.) Kunth
903. *Stipa consanguinea* Trin. et Rupr.
904. *Thamnocalamus spathiflora* Munro
905. *Themeda anathera* (Nees ex Steud.) Hack.
906. *Themeda laxa* (Anders.) A. Camus
907. *Themeda triandra* Forssk.
908. *Thysanolaena maxima* (Roxb.) O. Kuntze
909. *Trisetum clarkei* (Hook.f.) Stewart
910. *Trisetum spicatum* (L.) Richt.
911. *Vetiveria zizanioides* (L.) Nash

Podophyllaceae

912. *Podophyllum hexandrum* Royle

Polemoniaceae

913. *Polemonium caeruleum* L.

Polygalaceae

914. *Polygala abyssinica* R. Br. & Fres.



915. *Polygala persicariifolia* DC.

Polygonaceae

916. *Fagopyrum dibotrys* (D. Don) Hara

917. *Fagopyrum esculentum* Moench

918. *Oxyria digyna* (L.) Hill

919. *Persicaria capitata* Buch.-Ham. ex D. Don

920. *Persicaria nepalensis* (Meissn.) H. Gross

921. *Persicaria tenella* (Blume) Hara var. *kawagoena* Hara

922. *Polygonum affine* D. Don

923. *Polygonum amplexicaule* D. Don

924. *Polygonum aviculare* L.

925. *Polygonum barbatum* L.

926. *Polygonum cognatum* Meissn.

927. *Polygonum convolvulus* L.

928. *Polygonum delicatulum* Meissn.

929. *Polygonum dumetorum* L.

930. *Polygonum hydropiper* L.

931. *Polygonum hydropiper* var. *flaccidum* (Meissn.) Steward

932. *Polygonum molliaeforme* Boiss.

933. *Polygonum orientale* L.

934. *Polygonum paronychioides* C. A. Mey.

935. *Polygonum plebeium* R. Br.

936. *Polygonum polystachyum* Wall. ex Meissn.

937. *Polygonum sibiricum* Lam.

938. *Polygonum strigosum* (R. Br.) Nak.

939. *Polygonum tortuosum* D. Don

940. *Polygonum tubulosum* Boiss.

941. *Polygonum vacciniifolium* Wall. ex Meissn.

942. *Polygonum viviparum* L.

943. *Rheum australe* D. Don

944. *Rheum spiciforme* Royle

945. *Rumex acetosa* L.

946. *Rumex dentatus* L.

947. *Rumex hastatus* D. Don

948. *Rumex nepalensis* Spreng.

949. *Rumex orientalis* Bernh. ex Schult.

Portulacaceae

950. *Portulaca oleracea* L.

Potenderiaceae

951. *Monochoria hastata* (L.) Solms.

Primulaceae

952. *Anagallis arvensis* L.

953. *Androsace lanuginosa* Wall.

954. *Androsace rotundifolia* Hardw.

955. *Androsace sarmentosa* Wall.

956. *Androsace sempervivoides* Jacq.

957. *Androsace umbellata* (Lour.) Merrill

958. *Lysimachia lobelioides* Wall.

959. *Primula denticulata* Smith

960. *Primula floribunda* Wall.

961. *Primula sessilis* Royle ex Craib.

Punicaceae

962. *Punica granatum* L.

Ranunculaceae

963. *Aconitum heterophyllum* Wall.

964. *Aconitum rotundifolium* Kar. & Kit.

965. *Aconitum violaceum* Jacq. ex Stapf

966. *Adonis aestivalis* L.

967. *Anemone obtusiloba* D. Don

968. *Anemone rivularis* Buch.-Ham.

969. *Anemone tetrasepala* Royle

970. *Aquilegia fragrans* Benth.

971. *Aquilegia pubiflora* Wall. ex Royle

972. *Caltha palustris* L.

973. *Clematis barbellata* Edgew.

974. *Clematis buchananiana* DC.

975. *Clematis connata* DC.

976. *Clematis grata* Wall.

977. *Clematis montana* Buch.-Ham. ex DC.

978. *Clematis orientalis* L.

979. *Delphinium brunonianum* Royle
980. *Delphinium cashmerianum* Royle
981. *Delphinium vestitum* Wall. ex Royle
982. *Halerpestes sarmentosa* Komarov
983. *Ranunculus arvensis* L.
984. *Ranunculus brotherusii* Freyn.
985. *Ranunculus falcatus* L.
986. *Ranunculus hirtellus* Royle
987. *Ranunculus laetus* Wall.
988. *Ranunculus muricatus* L.
989. *Ranunculus sceleratus* L.
990. *Thalictrum chelidonii* DC.
991. *Thalictrum cultratum* Wall.
992. *Thalictrum foliolosum* DC.
993. *Thalictrum javanicum* L.
994. *Thalictrum minus* L.
995. *Thalictrum platycarpum* Edgew.
996. *Thalictrum reniforme* Wall.

Rhamnaceae

997. *Rhamnus triqueter* (Wall.) Brandis
998. *Sageretia thea* (Osbeck) M.C. Johnston
999. *Sageretia oppositifolia* Brongn.
1000. *Ziziphus jujuba* (L.) Gaertn.
1001. *Ziziphus mauritiana* Lam.

Rosaceae

1002. *Agrimonia pilosa* Ledeb.
1003. *Cotoneaster falconeri* Klotz.
1004. *Cotoneaster gilgitensis* Klotz.
1005. *Cotoneaster microphyllus* Wall. ex Lindl.
1006. *Cotoneaster obtusus* Wall. ex Lindl.
1007. *Duchesnea indica* (Andrews) Focke
1008. *Filipendula vestita* Wall. ex G. Don
1009. *Fragaria nubicola* Lindl. ex Lacaita
1010. *Fragaria vesca* L.
1011. *Geum elatum* Wall. ex G. Don

1012. *Geum roylei* Bolle
1013. *Potentilla arbuscula* D. Don
1014. *Potentilla atrisanguinea* Lodd.
1015. *Potentilla cuneata* Wall. ex Lehm.
1016. *Potentilla desertorum* Bunge
1017. *Potentilla fulgens* Wall. ex Hook.
1018. *Potentilla gerardiana* Lindl. ex Lehm.
1019. *Potentilla leucochroa* Wall. ex Lehm.
1020. *Potentilla leuconota* D. Don
1021. *Potentilla microphylla* D. Don
1022. *Potentilla multifida* L.
1023. *Potentilla nepalensis* Hook.
1024. *Potentilla salesoviana* Steph.
1025. *Potentilla sundaica* (Blume) Kuntze
1026. *Potentilla supina* L.
1027. *Prinsepia utilis* Royle
1028. *Prunus cerasifera* Ehrhart
1029. *Prunus cerasoides* D. Don
1030. *Prunus communis* Huds.
1031. *Prunus cornuta* (Wall. ex Royle) Steud.
1032. *Prunus persica* (L.) Batsch
1033. *Pyrus malus* L.
1034. *Pyrus pashia* Buch.-Ham. ex D. Don
1035. *Rosa brunonii* Lindl.
1036. *Rosa cathayensis* Bailey
1037. *Rosa centifolia* L.
1038. *Rosa macrophylla* Lindl.
1039. *Rosa sericea* Lindl.
1040. *Rosa webbiana* Wall. ex Royle
1041. *Rubus fasciculatus* Duthie
1042. *Rubus paniculatus* Smith
1043. *Rubus ellipticus* Smith
1044. *Rubus irritans* Focke
1045. *Rubus macilentus* Camb.
1046. *Rubus niveus* Thunb.



- 1047. *Rubus saxatilis* L.
- 1048. *Sibbaldia parviflora* Willd.
- 1049. *Sorbaria tomentosa* (Lindl.) Rehder
- 1050. *Spiraea canescens* D. Don

Rubiaceae

- 1051. *Asperula oppositifolia* Regel & Schmalh.
- 1052. *Borreria articularis* (L.f.) F. N. Williams
- 1053. *Borreria pusilla* (Wall.) DC.
- 1054. *Galium aparine* L.
- 1055. *Galium asperifolium* Wall.
- 1056. *Galium asperuloides* Edgew.
- 1057. *Galium boreale* L.
- 1058. *Galium elegans* Wall.
- 1059. *Galium verum* L.
- 1060. *Himalrandia tetrasperma* (Roxb.) Yamazaki
- 1061. *Leptodermis lanceolata* Wall.
- 1062. *Oldenlandia brachiata* Wight
- 1063. *Oldenlandia coccinea* Royle
- 1064. *Oldenlandia corymbosa* L.
- 1065. *Rubia cordifolia* L.
- 1066. *Rubia tibetica* Hook. f.
- 1067. *Spermadictyon suaveolens* Roxb.
- 1068. *Wendlandia heynei* Santapau & Merchant

Rutaceae

- 1069. *Aegle marmelos* Corr.
- 1070. *Boenninghausenia albiflora* (Hook.) Reichb. ex Meisn.
- 1071. *Citrus aurantium* L.
- 1072. *Citrus medica* L.
- 1073. *Murraya koenigii* (L.) Spreng.
- 1074. *Skimmia anquetilia* Taylor & Airy Shaw
- 1075. *Zanthoxylum armatum* DC.

Salicaceae

- 1076. *Populus caspica* Bornm.
- 1077. *Populus nigra* L.
- 1078. *Salix alba* L.

1079. *Salix denticulata* Anderss.

1080. *Salix flabellaris* Anderss.

1081. *Salix myricaefolia* Anderss.

1082. *Salix oxycarpa* Anderss.

1083. *Salix tetrasperma* Roxb.

1084. *Salix wallichiana* Anderss.

Sambucaceae

1085. *Sambucus nigra* L.

1086. *Sambucus wightiana* Wall. ex Wight & Arn.

Santalaceae

1087. *Osyris quadripartita* Salz. ex Decne.

1088. *Santalum album* L.

1089. *Thesium himalense* Royle ex Edgew.

Sapindaceae

1090. *Cardiospermum halicacabum* L.

1091. *Dodonaea angustifolia* L.f.

1092. *Sapindus mukorossi* Gaertn.

Sapotaceae

1093. *Mimusops elengi* L.

Saururaceae

1094. *Houttuynia cordata* Thunb.

Saxifragaceae

1095. *Bergenia ciliata* (Haworth) Sternb.

1096. *Bergenia stracheyi* (Hook. f. & Thoms.) Engl.

1097. *Saxifraga flagellaris* Willd. ex Sternb.

1098. *Saxifraga parnassifolia* D. Don

Scrophulariaceae

1099. *Antirrhinum orontium* L.

1100. *Bacopa procumbens* (Miller) Greenman

1101. *Euphrasia foliosa* Pennell

1102. *Euphrasia officinalis* L.

1103. *Euphrasia platyphylla* Pennell

1104. *Euphrasia schlagintweitii* Wettst.

1105. *Hemiphragma heterophyllum* Wall.

1106. *Lancea tibetica* Hook. f. & Thoms.



- 1107. *Leptorhabdos parviflora* (Benth.) Benth.
- 1108. *Lindenbergia indica* (L.) Vatke
- 1109. *Lindernia ciliata* (Colsm.) Pennell
- 1110. *Lindernia nummularifolia* (D. Don) Wettst.
- 1111. *Mazus delavayi* Bonati
- 1112. *Mazus japonicus* (Thunb.) Kuntze
- 1113. *Pedicularis bicornuta* Klotz.
- 1114. *Pedicularis longiflora* Rudolph
- 1115. *Pedicularis mollis* Wall. ex Benth.
- 1116. *Pedicularis pectinata* Wall. ex Benth.
- 1117. *Pedicularis porrecta* Wall. ex Benth.
- 1118. *Pedicularis punctata* Decne.
- 1119. *Pedicularis tenuirostris* Benth.
- 1120. *Picrorhiza kurrooa* Royle ex Benth.
- 1121. *Scrophularia calycina* Benth.
- 1122. *Scrophularia himalensis* Royle
- 1123. *Scrophularia polyantha* Royle ex Benth.
- 1124. *Scrophularia suffruticosa* Pennell
- 1125. *Sopubia trifida* Buch.-Ham. ex D. Don
- 1126. *Torenia cordifolia* Roxb.
- 1127. *Verbascum thapsus* L.
- 1128. *Veronica anagallis-aquatica* L.
- 1129. *Veronica beccabunga* L.
- 1130. *Veronica biloba* L.
- 1131. *Veronica didyma* Tenore
- 1132. *Veronica lanosa* Royle ex Benth.
- 1133. *Veronica persica* Poir.
- 1134. *Wulfenia amherstiana* Benth.

Simaroubaceae

- 1135. *Ailanthus altissima* (Mill.) Swingle

Smilacaceae

- 1136. *Smilax aspera* L.
- 1137. *Smilax glaucophylla* Klotz.
- 1138. *Smilax menispermoides* A. DC.

Solanaceae

- 1139. *Brugmansia suaveolens* Berch. & Presl
- 1140. *Cestrum fasciculatum* Miers

- 1141. *Datura stramonium* L.
- 1142. *Hyoscyamus niger* L.
- 1143. *Nicotiana plumbaginifolia* Viv.
- 1144. *Physalis micrantha* L.
- 1145. *Physalis peruviana* L.
- 1146. *Physochlaina praealta* (Decne.) Miers
- 1147. *Solanum nigrum* L.
- 1148. *Solanum pseudo-capsicum* L.
- 1149. *Solanum tuberosum* L.
- 1150. *Solanum viarum* Dunal

Sterculiaceae

- 1151. *Melochia corchorifolia* L.

Tamaricaceae

- 1152. *Myricaria germanica* (L.) Desv.

Theaceae

- 1153. *Camellia assamica* (L.) Kuntze
- 1154. *Camellia japonica* L.
- 1155. *Camellia sinensis* (L.) Kuntze

Thymelaeaceae

- 1156. *Daphne cannabina* Wall.
- 1157. *Daphne mucronata* Royle
- 1158. *Daphne oleoides* Schreb.

Tiliaceae

- 1159. *Corchorus aestuans* L.
- 1160. *Grewia asiatica* L.
- 1161. *Grewia disperma* Rottb.
- 1162. *Grewia hirsuta* Vahl
- 1163. *Grewia optiva* Drumm. ex Burret
- 1164. *Triumfetta pilosa* Roth
- 1165. *Triumfetta rhomboidea* Jacq.

Ulmaceae

- 1166. *Celtis tetrandra* Roxb.

Urticaceae

- 1167. *Boehmeria platyphylla* D. Don
- 1168. *Debregeasia longifolia* (Burm. f.) Wedd.



1169. *Debregeasia saeneb* (Forssk.) Hepper & Wood
 1170. *Elatostema sessile* J. R. Forst. & J.G. Forst.
 1171. *Girardinia palmata* (Forsk.) Gaudich.
 1172. *Pilea umbrosa* Wedd.
 1173. *Pouzolzia hirta* Haussk.
 1174. *Pouzolzia zeylanica* (L.) J. Bennett & Brown
 1175. *Urtica ardens* L.
 1176. *Urtica dioica* L.
 1177. *Urtica hyperborea* Jacq.

Valerianaceae

1178. *Valeriana jatamansi* Jones
 1179. *Valeriana stracheyi* C. B. Clarke

Verbenaceae

1180. *Callicarpa macrophylla* Vahl
 1181. *Clerodendrum fragrans* Willd.
 1182. *Clerodendrum inerme* (L.) Gaertn.
 1183. *Clerodendrum viscosum* Ventenat
 1184. *Duranta repens* L.
 1185. *Lantana camara* L.
 1186. *Verbena bronariensis* L.
 1187. *Vitex negundo* L.

Violaceae

1188. *Viola betonicifolia* J. Smith
 1189. *Viola canescens* Wall.
 1190. *Viola kashmiriana* W. Becker
 1191. *Viola pilosa* Blume
 1192. *Viola serpens* Wall. ex Ging.
 1193. *Viola tricolor* L.

Vitaceae

1194. *Ampelocissus divaricata* (Wall. ex Lawson) Planch.

Zingiberaceae

1195. *Costus speciosus* (Koenig ex Retz.) J. E. Smith
 1196. *Hedychium spicatum* Buch.-Ham. ex J. E. Smith

GYMNOSPERMS

Cupressaceae

1197. *Juniperus communis* L.
1198. *Juniperus indica* Bertol.
1199. *Juniperus recurva* Buch.-Ham. ex D. Don

Ephedraceae

1200. *Ephedra gerardiana* Wall. ex Stapf
1201. *Ephedra intermedia* Sch. et Mey.
1202. *Ephedra regeliana* Florin.

Pinaceae

1203. *Abies pindrow* Royle
1204. *Picea smithiana* (Wall.) Boiss.
1205. *Pinus gerardiana* Wall.
1206. *Pinus roxburghii* Sarg.
1207. *Pinus wallichiana* A. B. Jackson

Taxaceae

1208. *Taxus baccata* L. subsp. *wallichiana* (Zucc.) Pilger

PTERIDOPHYTES

Adiantaceae

1209. *Adiantum capillus-veneris* L.
1210. *Adiantum incisum* L.
1211. *Adiantum lunulatum* L.
1212. *Adiantum venustum* D. Don

Athyriaceae

1213. *Athyrium pectinatum* (Wall. ex Hope) Presl.
1214. *Athyrium wallichii* Ching
1215. *Cystopteris fragilis* (L.) Bernh.
1216. *Deparia allantodioides* (Bedd.) M. Kato
1217. *Diplazium japonicum* (Thunb.) Bedd.

Cheilanthaceae

1218. *Cheilanthes farinosa* (Forssk.) Klf.

Cryptogrammeae

1219. *Onychium contiguum* Wall. ex Hope



Davalliaceae

1220. *Araiostegia pseudocystopteris* (Kunze) Copel.

Dryopteridaceae

1221. *Dryopteris chrysocoma* (Christ.) C. Chr.
 1222. *Polystichum aculeatum* (L.) Schott
 1223. *Polystichum squarrosum* (D. Don) Fee
 1224. *Pteridium aquilinum* (L.) Kuhn

Equisetaceae

1225. *Equisetum arvense* L.
 1226. *Equisetum diffusum* D. Don
 1227. *Equisetum palustre* L.
 1228. *Equisetum ramosissimum* Desf.

Polypodiaceae

1229. *Lepisorus excavatus* (Willd.) Ching
 1230. *Polypodium microrrhizomum* C. B. Clarke

Pteridaceae

1231. *Pteris cretica* L.
 1232. *Pteris vittata* L.
 1233. *Pteris wallichiana* Agardh

Selaginellaceae

1234. *Selaginella adunca* A. Br. ex Hieron.
 1235. *Selaginella chrysocaulos* (Hook. & Grev.) Spreng

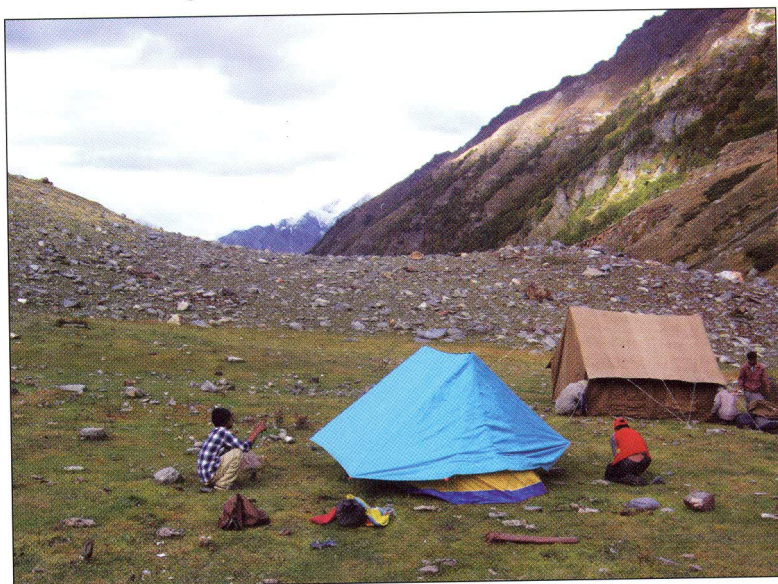
Thelypteridaceae

1236. *Christella dentata* (Forssk.) Brown
 1237. *Thelypteris brunea* (Spenn.) Und. ex Britton
 1238. *Thelypteris erubescens* (Wall. Ex Hook) Ching

GLIMPSES OF FIELD AND FIELD ACTIVITIES



Trekking into the interior areas of Himalaya through forests and glaciers



Camping in wilderness for plant collection



Typical glacial moraine

GLIMPSES OF FIELD AND FIELD ACTIVITIES



Juniper scrub in alpine ranges of Himalaya



Collecting specimens in field



Returning with samples

New additions to Flora of Himachal Pradesh



Aeginetia indica



Crassocephalum crepidioides



Heriniaria incana

New additions to Flora of Himachal Pradesh



Polygonum hydropiper var. *flaccidum*



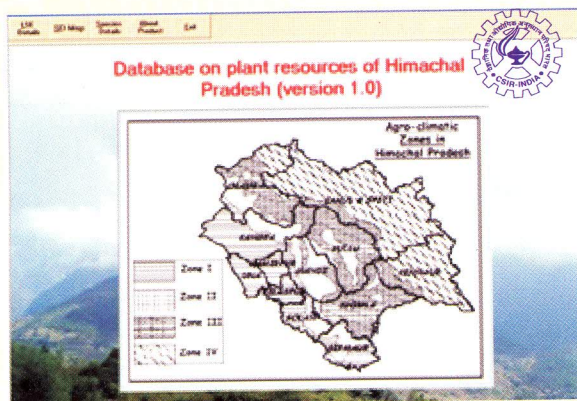
Soliva anthemifolia



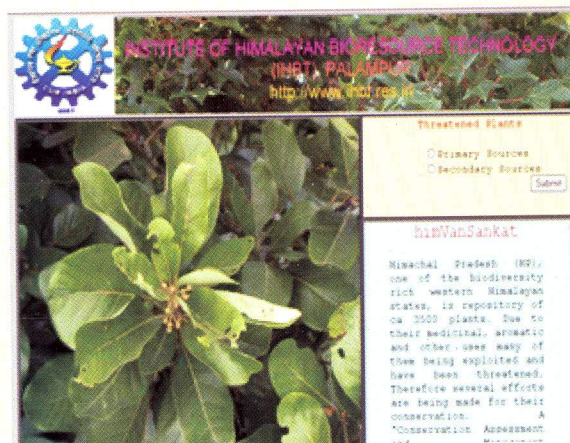
Synedrella vialis

DATABASES DEVELOPED AND MAINTAINED AT IHBT

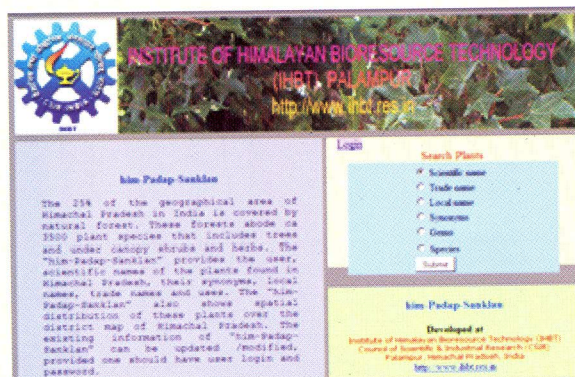
himFloris- provides information on the taxonomy, distribution & uses of plants. It is based on primary field data.



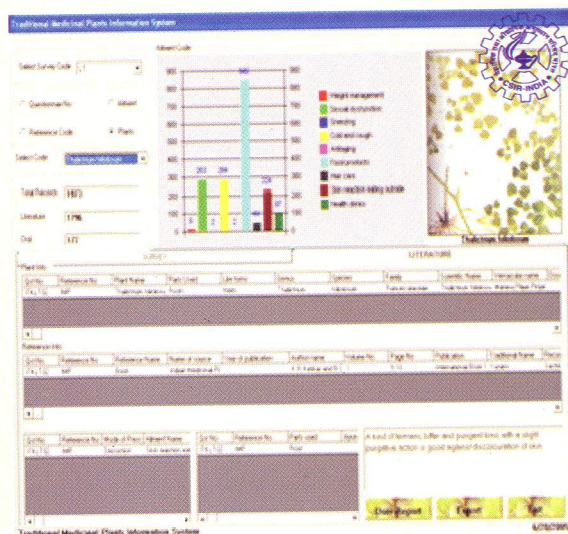
himVanSankat- has information on the threatened plants of Himachal Pradesh as categorized by the CAMP workshops.



him-Padap-Sanklan- is the digitization of the Analysis of the Flora of Himachal Pradesh.



TRAMPIS- has information on the medicinal plants of Himachal Pradesh. It is primarily based on secondary information.



TKDL- The Institute is an active member of the Traditional Knowledge Digital Library Programme of the CSIR.

Traditional Knowledge Digital Library

