



**International Journal of Biology, Pharmacy  
and Allied Sciences (IJBPAS)**

*'A Bridge Between Laboratory and Reader'*

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**THE DIVERSITY OF MEDICINAL FLOWERING PLANT SPECIES AND  
THEIR MEDICAL USES IN PHIA OAC - PHIA DEN NATIONAL PARK,  
CAO BANG PROVINCES, VIETNAM**

NGUYEN THI THANH HUONG<sup>1,2</sup>, TRAN VAN HAI<sup>3</sup>, LE NGOC HAN<sup>1</sup>, TRAN DUC  
BINH<sup>1</sup>, DO VAN HAI<sup>1,2</sup>, BUI HONG QUANG<sup>1,2</sup>, DUONG THI HOAN<sup>1,2</sup>, VU ANH  
THUONG<sup>1,2</sup>, BUI THU HA<sup>4</sup>, VU THI DUNG<sup>4</sup>, KIEU CAM NHUNG<sup>5</sup>, BUI THI THANH  
MAI<sup>6</sup>, TRAN THE BACH<sup>1,2\*</sup>

- 1: Institute of Ecology and Biological Resources, Vietnam Academy of Science and Technology, 18  
Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam
- 2: Graduate University of Science and Technology, Vietnam Academy of Science and Technology, 18  
Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam
- 3: Vietnam Academy of Science and Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam
- 4: Hanoi National University of Education, 136, Xuan Thuy Street-Cau Giay District, Hanoi, Vietnam
- 5: Ministry of Science and Technology 6. Institute of Biotechnology, Vietnam Academy of Science and  
Technology, 18 Hoang Quoc Viet, Cau Giay, Hanoi, Vietnam

**\*Corresponding Author: Tran The Bach: E Mail: [tranthebach.botany@gmail.com](mailto:tranthebach.botany@gmail.com)**

Received 19<sup>th</sup> Aug. 2021; Revised 20<sup>th</sup> Sept. 2021; Accepted 29<sup>th</sup> Oct. 2021; Available online 1<sup>st</sup> Dec. 2021

<https://doi.org/10.31032/IJBPAS/2021/10.12.2043>

**ABSTRACT**

Establishment of list medicinal flowering plant species in Phia Oac-Phia Den National Park based on references, studies at herbaria and investigations. 687 species of 458 genera, 143 families are recorded in Phia Oac-Phia Den National Park. Among them, 418 species are used to treat 49 diseases/medical uses (asthma, brain hemorrhage, bronchitis, burned, cancer, cirrhosis, detoxify, diabetes, diuretic, dysentery, encephalitis, eyesore, flu, fracture, galactopoietic, gastritis, gonorrhoea, haemorrhoids, headache, heart and blood pressure diseases, hemostatic, hepatitis, hurt fall, inflammatory bowel, irregular menstruation, keratitis, kidney stone, malaria,

measles, mumps, nephritis, obese, oedema, otitis, paralytic, pertussis, pimple, pneumonia, rheumatism, scrofulous, sinusitis, snake bite, sore throat, sterile, syphilis, toothache, tranquillizer, urolithiasis, vaginitis).

**Keywords: Plants, diseases, Phia Oac-Phia Den, Viet Nam**

## INDODUCTION

Phia Oac - Phia Den National Park is an unique geographical location, special climatic conditions, should there be a very diverse and abundant flora of not only Cao Bang province but also of Vietnam. Studying medicinal plants of the flora of Phia Oac - Phia Den National Park will help us understand well the composition of medicinal plant resources. There are almost no studies on the diversity of medicinal plants and medical values in a systematic way, so their use and development face many difficulties. The evaluation of the diversity of medicinal uses will help guide more specific research in medicine and pharmacy. This study will address that problem. For the correct use of plants, identification is an important first step. Vietnam has scientists who specialize in flowering plants, but few scientists who study the rest of the plant groups. Therefore, the topic selected flowering plants for research to ensure high accuracy of species identification.

## METHODOLOGY

Establish list species in Phia Oac-Phia Den National Park based on references,

investigation and study on specimens at herbaria. The identification of species based on the morphological comparison method. Name of 49 diseases according to Vo V. Chi (2012) and National Institute of Medicinal Materials (2006, 2011). Use Microsoft Access to manage data, evaluate the diversity of taxon, medical values.

## RESULTS

- Diversity of medicinal flowering plants: 687 species, 458 genera, 143 families are recorded in Phia Oac-Phia Den National Park. 10 families with rich number of species: ASTERACEAE (39 species), EUPHORBIACEAE (36 species), POACEAE (20 species), FABACEAE (20 species), VERBENACEAE (19 species), RUBIACEAE (17 species), MORACEAE (16 species), LAURACEAE (16 species), MYRSINACEAE (15 species), LAMIACEAE (14 species). 10 genera with rich number of species: *Ficus* (11 species), *Ardisia* (8 species), *Desmodium* (7 species), *Litsea* (7 species), *Hedyotis* (6 species), *Alpinia* (5 species), *Blumea* (5 species), *Callicarpa* (5 species),

*Clerodendrum* (5 species), *Schefflera* (5 species).

- The diversity of medical uses of medicinal flowering plants in Phia Oac-Phia Den National Park.

418 species are used to treat 49 diseases. 269 remain medicinal plant species are used to treat other diseases.

Treat asthma: 17 species, 17 genera, 16 families. Treat brain hemorrhage: 2 species, 2 genera, 2 families. Treat bronchitis: 25 species, 24 genera, 20 families. Treat burned: 56 species, 50 genera, 41 families. Treat cancer: 1 species, 1 genus, 1 family. Treat cirrhosis: 4 species, 4 genera, 4 families. Detoxify: 31 species, 28 genera, 19 families. Treat diabetes: 10 species, 10 genera, 10 families. Diuretic: 41 species, 41 genera, 33 families. Treat dysentery: 107 species, 12 genera, 56 families. Treat encephalitis: 3 species, 3 genera, 3 families. Treat eyesore: 11 species, 10 genera, 9 families. Treat flu: 18 species, 16 genera, 13 families. Treat fracture: 10 species, 10 genera, 8 families. Galactopoietic: 7 species, 7 genera, 7 families. Treat gastritis: 13 species, 13 genera, 12 families. Treat gonorrhoea: 13 species, 13 genera, 13 families. Treat haemorrhoids: 19 species, 16 genera, 15 families. Treat headache: 55 species, 54 genera, 38 families. Treat heart and blood

pressure diseases: 19 species, 18 genera, 14 families. Treat hemostatic: 20 species, 20 genera, 18 families. Treat hepatitis: 47 species, 41 genera, 29 families. Treat hurt fall: 84 species, 71 genera, 46 families. Treat inflammatory bowel: 51 species, 48 genera, 34 families. Treat irregular menstruation: 23 species, 22 genera, 18 families. Treat keratitis: 3 species, 3 genera, 3 families. Treat kidney stone: 16 species, 16 genera, 12 families. Treat malaria: 23 species, 21 genera, 17 families. Treat measles: 32 species, 29 genera, 22 families. Treat mumps: 4 species, 4 genera, 4 families. Treat nephritis: 26 species, 24 genera, 20 families. Treat obese: 2 species, 2 genera, 2 families. Treat oedema: 33 species, 32 genera, 25 families. Treat otitis: 9 species, 9 genera, 8 families. Treat paralytic: 5 species, 5 genera, 4 families. Treat pertussis: 14 species, 14 genera, 13 families. Treat pimple: 103 species, 97 genera, 53 families. Treat pneumonia: 16 species, 16 genera, 15 families. Treat rheumatism: 135 species, 112 genera, 64 families. Treat scrofulous: 10 species, 10 genera, 9 families. Treat sinusitis: 3 species, 3 genera, 3 families. Treat snake bite: 124 species, 109 genera, 63 families. Treat sore throat: 20 species, 18 genera, 15 families. Treat sterile: 4 species, 4 genera, 3 families. Treat syphilis: 1 species, 1 genus, 1

family. Treat toothache: 22 species, 22 genera, 20 families. Tranquillizer: 4 species, 4 genera, 4 families. Treat urolithiasis: 8 species, 8 genera, 7 families. Treat vaginitis: 32 species, 29 genera, 24 families. 269 remain medicinal plant species treat other diseases /medical use.

Specific data on diseases treated with medicinal plants will provide a clear direction when studying medicine.

**CONCLUSION:**

687 medicinal flowering plant species of 458 genera, 143 families are recorded in Phia Oac-Phia Den National Park. Among them, 418 species are used to treat 49 diseases.

**Acknowledgements**

We thank the directors and curators of the herbaria HN, P, and VNM for allowing access to and/or for providing high quality images of herbarium specimens to identify species. Funding for this research was provided by project UDNDP.02/2022-2023.

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Table 1. List of medicinal plant species in Phia Oac-Phia Den National Park

	Species	Medical values
1	<i>Abelmoschus moschatus</i>	15 17 18 25 35
2	<i>Abroma augusta</i>	3 12 35 41 42
3	<i>Abutilon indicum</i>	15 20 26 39 46
4	<i>Acalypha australis</i>	
5	<i>Acanthopanax trifoliatum</i>	2 18 20 32 35 41 46
6	<i>Achillea millefolium</i>	
7	<i>Achyranthes aspera</i>	13 16 19 20 30 41 42 47
8	<i>Acronychia pedunculata</i>	35 41
9	<i>Actinidia coriacea</i>	
10	<i>Actinidia latifolia</i>	
11	<i>Actinodaphne obovata</i>	
12	<i>Actinodaphne pilosa</i>	
13	<i>Actinostemma tenerum</i>	8
14	<i>Adenostemma lavenia</i>	17
15	<i>Aerva sanguinolenta</i>	
16	<i>Aesculus assamica</i>	13 45
17	<i>Agastache rugosa</i>	17 35 39 40
18	<i>Ageratum conyzoides</i>	31
19	<i>Aglaia elaeagnoidea</i>	
20	<i>Aglaonema siamense</i>	23 35
21	<i>Ailanthus triphysa</i>	2 13
22	<i>Alangium barbatum</i>	20
23	<i>Alangium chinense</i>	17 20 22 41 45
24	<i>Alangium kurzii</i>	20 41
25	<i>Albizia chinensis</i>	17
26	<i>Alchornea tiliifolia</i>	
27	<i>Aleurites moluccana</i>	
28	<i>Allophylus caudatus</i>	
29	<i>Allospodias lakonensis</i>	

30	<i>Alniphyllum fortunei</i>	
31	<i>Alnus nepalensis</i>	13 20 26 39 41
32	<i>Alpinia blepharocalyx</i>	8
33	<i>Alpinia chinensis</i>	20 42
34	<i>Alpinia globosa</i>	8 13
35	<i>Alpinia officinarum</i>	19 20 25
36	<i>Alpinia pinnanensis</i>	
37	<i>Alstonia scholaris</i>	
38	<i>Alternanthera sessilis</i>	13 17 50
39	<i>Alingia siamensis</i>	
40	<i>Amaranthus caudatus</i>	23 50
41	<i>Amaranthus spinosus</i>	13 17 22 35 38 47
42	<i>Amischotolype hispida</i>	
43	<i>Amomum aromaticum</i>	8 19
44	<i>Amomum longiligulare</i>	20
45	<i>Amomum villosum</i>	
46	<i>Ampelopsis cantoniensis</i>	
47	<i>Ampelopsis heterophylla</i>	20 35
48	<i>Ancistrocladus tectorius</i>	
49	<i>Anoectochilus setaceus</i>	20 25 41
50	<i>Anogeissus acuminata</i>	
51	<i>Antiaris toxicaria</i>	13
52	<i>Antidesma bunius</i>	
53	<i>Antidesma montanum</i>	
54	<i>Aphanamixis grandiflora</i>	17
55	<i>Aphanamixis polystachya</i>	20
56	<i>Aporosa dioica</i>	
57	<i>Aralia armata</i>	17 19 20 26 28 30 35 47
58	<i>Aralia chinensis</i>	2 17 20 21 26 30 41 47
59	<i>Archidendron clypearia</i>	
60	<i>Archidendron lucidum</i>	
61	<i>Ardisia caudata</i>	
62	<i>Ardisia conspersa</i>	41
63	<i>Ardisia corymbifera</i>	41
64	<i>Ardisia gigantifolia</i>	35 41
65	<i>Ardisia mamillata</i>	26
66	<i>Ardisia silvestris</i>	13
67	<i>Ardisia villosa</i>	41
68	<i>Ardisia virens</i>	37 41 46
69	<i>Areca laosensis</i>	
70	<i>Arenga pinnata</i>	15
71	<i>Aristolochia indica</i>	
72	<i>Artabotrys hongkongensis</i>	
73	<i>Artemisia vulgaris</i>	20
74	<i>Artocarpus heterophyllus</i>	14 17 22 35
75	<i>Artocarpus lakoocha</i>	35
76	<i>Arundina graminifolia</i>	17 20 26 47
77	<i>Asarum balansae</i>	20 40
78	<i>Asarum caudigerum</i>	
79	<i>Asarum glabrum</i>	
80	<i>Asparagus cochinchinensis</i>	15
81	<i>Aspidistra tonkinensis</i>	
82	<i>Aspidistra typica</i>	8
83	<i>Baccaurea ramiflora</i>	
84	<i>Baeckea frutescens</i>	5 35 44
85	<i>Balanophora fungosa</i>	
86	<i>Balanophora latisejala</i>	
87	<i>Bambusa tuldooides</i>	
88	<i>Bambusa vulgaris</i>	

89	<i>Barringtonia acutangula</i>	17
90	<i>Bauhinia bracteata</i>	
91	<i>Bauhinia championii</i>	20 41
92	<i>Bauhinia pyrrhoclada</i>	
93	<i>Bauhinia variegata</i>	13 17 25 46
94	<i>Beccarinda tonkinensis</i>	
95	<i>Begonia aptera</i>	13 35 38 41 49
96	<i>Begonia pedatifida</i>	17 20 41
97	<i>Berchemia floribunda</i>	20 33 42
98	<i>Bergia ammannioides</i>	17
99	<i>Betula alnoides</i>	13 17 20
100	<i>Bidens pilosa</i>	23
101	<i>Biophytum sensitivum</i>	12 15 21 35 43 46
102	<i>Bischofia javanica</i>	
103	<i>Blainvillea acmella</i>	
104	<i>Blastus cochinchinensis</i>	
105	<i>Blumea balsamifera</i>	5
106	<i>Blumea densiflora</i>	
107	<i>Blumea lacera</i>	8 35
108	<i>Blumea lanceolaria</i>	15
109	<i>Blumea mollis</i>	
110	<i>Boehmeria nivea</i>	5 17 23 30 41 44 47
111	<i>Bombax ceiba</i>	
112	<i>Brassaiopsis glomerulata</i>	20 41 49
113	<i>Breynia fruticosa</i>	
114	<i>Breynia vitis-idaea</i>	
115	<i>Bridelia retusa</i>	
116	<i>Broussonetia papyrifera</i>	15
117	<i>Buddleja asiatica</i>	6 20 35 37 44
118	<i>Buddleja officinalis</i>	6 20
119	<i>Bulbostylis densa</i>	
120	<i>Burmanna disticha</i>	
121	<i>Byttneria pilosa</i>	20 41 42
122	<i>Caesalpinia bonduc</i>	
123	<i>Caesalpinia minax</i>	
124	<i>Caesalpinia sappan</i>	13
125	<i>Calamus tetradactylus</i>	
126	<i>Callicarpa arborea</i>	20 41
127	<i>Callicarpa candicans</i>	35 49
128	<i>Callicarpa longifolia</i>	9
129	<i>Callicarpa macrophylla</i>	20 41
130	<i>Callicarpa rubella</i>	2 8 20
131	<i>Camellia caudata</i>	
132	<i>Canarium album</i>	8 17 28
133	<i>Canarium parvum</i>	20 38
134	<i>Canarium tramdenum</i>	8 17 20 38 39
135	<i>Cardamine hirsuta</i>	13 17
136	<i>Cardiospermum halicacabum</i>	21 30 41 47 49
137	<i>Carex baccans</i>	
138	<i>Carex phacota</i>	
139	<i>Carpesium abrotanoides</i>	28 40
140	<i>Caryota mitis</i>	
141	<i>Caryota monostachya</i>	
142	<i>Caryota urens</i>	2 13
143	<i>Cayratia japonica</i>	2 8 15 17 26 50
144	<i>Cayratia trifolia</i>	2 35
145	<i>Celastrus monospermus</i>	
146	<i>Celosia argentea</i>	2 13 17 22 23 27
147	<i>Centella asiatica</i>	2 8 13 14 17 28 35 38 44

148	<i>Chenopodium ambrosioides</i>	10
149	<i>Chloranthus japonicus</i>	2 35 41
150	<i>Chloranthus spicatus</i>	20 41
151	<i>Choerospondias axillaris</i>	35 38
152	<i>Chrysopogon aciculatus</i>	
153	<i>Chukrasia tabularis</i>	
154	<i>Cinnamomum bejolghota</i>	
155	<i>Cinnamomum bonii</i>	
156	<i>Cinnamomum burmannii</i>	5 20 35
157	<i>Cinnamomum parthenoxylon</i>	13 20 44 49
158	<i>Cipadessa baccifera</i>	20
159	<i>Cissampelos pareira</i>	13 15 30 41 43
160	<i>Cissus triloba</i>	17 35
161	<i>Citrus limonia</i>	10
162	<i>Claoxylon indicum</i>	17
163	<i>Claoxylon longifolium</i>	
164	<i>Clausena excavata</i>	35
165	<i>Clausena lansium</i>	29
166	<i>Cleidion brevipetiolatum</i>	
167	<i>Cleistocalyx operculatus</i>	13 20 26 35 45
168	<i>Clematis smilacifolia</i>	7 47
169	<i>Clerodendrum chinense</i>	2 17 20 22 35 42
170	<i>Clerodendrum colebrookianum</i>	
171	<i>Clerodendrum cyrtophyllum</i>	3 13 29 46
172	<i>Clerodendrum japonicum</i>	2 13 20 22 23 35 42
173	<i>Clerodendrum serratum</i>	6 17 19 20 26 28 37
174	<i>Clinacanthus nutans</i>	38
175	<i>Clinopodium chinense</i>	12
176	<i>Cnesmosa javanica</i>	
177	<i>Cnidium monnieri</i>	2 32
178	<i>Coccinia grandis</i>	12 17 20 21 27
179	<i>Cocculus laurifolius</i>	
180	<i>Codonopsis javanica</i>	
181	<i>Coix lacryma-jobi</i>	14 20 43
182	<i>Colocasia esculenta</i>	17 35
183	<i>Commelina benghalensis</i>	39 40
184	<i>Commelina communis</i>	8
185	<i>Commelina diffusa</i>	8 15
186	<i>Conyza canadensis</i>	7 13 18 20 26 40
187	<i>Conyza sumatrensis</i>	
188	<i>Coptis teeta</i>	6 13
189	<i>Costus speciosus</i>	17 33 35 49
190	<i>Crateva magna</i>	17
191	<i>Cratoxylum cochinchinense</i>	12 13 42 46
192	<i>Crinum asiaticum</i>	35
193	<i>Crotalaria albida</i>	17 19 35
194	<i>Croton tiglium</i>	
195	<i>Cryptolepis buchananii</i>	
196	<i>Curculigo capitulata</i>	15 20 30 43
197	<i>Curculigo gracilis</i>	
198	<i>Curculigo orchioides</i>	20 30
199	<i>Curcuma longa</i>	17 38 46
200	<i>Curcuma zedoaria</i>	17
201	<i>Cuscuta japonica</i>	
202	<i>Cyathula prostrata</i>	13 20
203	<i>Cymbidium aloifolium</i>	
204	<i>Cymbidium lancifolium</i>	41
205	<i>Cymbopogon citratus</i>	5 20
206	<i>Cynodon dactylon</i>	17 20 42

207	<i>Cynoglossum zeylanicum</i>	17 35 42
208	<i>Cyperus compressus</i>	
209	<i>Cyperus diffusus</i>	
210	<i>Cyperus rotundus</i>	
211	<i>Dactyloctenium aegyptium</i>	
212	<i>Dalbergia assamica</i>	17 20 41
213	<i>Dalbergia rimosa</i>	45
214	<i>Deeringia amaranthoides</i>	
215	<i>Delavaya toxocarpa</i>	
216	<i>Dendrobium chrysanthum</i>	
217	<i>Dendrobium nobile</i>	17
218	<i>Dendrolobium triangulare</i>	13 17 20
219	<i>Dendropanax chevalieri</i>	20 42
220	<i>Derris elliptica</i>	
221	<i>Derris scandens</i>	
222	<i>Desmodium caudatum</i>	13 20 26
223	<i>Desmodium gangeticum</i>	15 17 47
224	<i>Desmodium heterocarpon</i>	13 17 28 29 35 41 43
225	<i>Desmodium laxum</i>	17 26
226	<i>Desmodium podocarpum</i>	20 41
227	<i>Desmodium sequax</i>	10
228	<i>Desmodium velutinum</i>	
229	<i>Desmos chinensis</i>	13
230	<i>Dianella ensifolia</i>	
231	<i>Dichrocephala benthamii</i>	17 26 35
232	<i>Dichrocephala integrifolia</i>	15
233	<i>Dioscorea bulbifera</i>	
234	<i>Dioscorea cirrhosa</i>	
235	<i>Dioscorea colletii</i>	2
236	<i>Dioscorea persimilis</i>	
237	<i>Diospyros kaki</i>	22
238	<i>Diospyros malabarica</i>	13
239	<i>Disporum calcaratum</i>	
240	<i>Dracaena angustifolia</i>	12 13
241	<i>Dracontomelon duperreanum</i>	17 38
242	<i>Drosera burmannii</i>	49
243	<i>Duabanga grandiflora</i>	
244	<i>Duchesnea indica</i>	2 13 17 35 38 46
245	<i>Dunbaria fusca</i>	
246	<i>Echinochloa crus-galli</i>	
247	<i>Eclipta prostrata</i>	13 26 46
248	<i>Eichhornia crassipes</i>	
249	<i>Elaeagnus conferta</i>	
250	<i>Elaeagnus loureiri</i>	26 41
251	<i>Elaeocarpus chinensis</i>	
252	<i>Elaeocarpus lanceifolius</i>	
253	<i>Elaeocarpus petiolatus</i>	
254	<i>Elephantopus scaber</i>	7 13 15 17 26 30 33
255	<i>Eleusine indica</i>	22 26 30 35
256	<i>Eleutherine bulbosa</i>	
257	<i>Elsholtzia blanda</i>	5 19
258	<i>Elsholtzia pilosa</i>	45
259	<i>Elsholtzia winitiana</i>	5 15 17 25 46
260	<i>Embelia parviflora</i>	37 41 46
261	<i>Embelia ribes</i>	
262	<i>Embelia scandens</i>	
263	<i>Emilia sonchifolia</i>	5 13 17 39 46
264	<i>Endospermum chinense</i>	
265	<i>Engelhardtia roxburghiana</i>	

266	<i>Engelhardtia spicata</i>	
267	<i>Eryngium foetidum</i>	17 46
268	<i>Erythrina stricta</i>	1
269	<i>Erythralum scandens</i>	26 30 46
270	<i>Eucalyptus camaldulensis</i>	13
271	<i>Eucalyptus exserta</i>	5 8
272	<i>Eucalyptus globulus</i>	5 10 20 21 38 40
273	<i>Euonymus laxiflorus</i>	41
274	<i>Eupatorium fortunei</i>	35 47
275	<i>Euphorbia hirta</i>	
276	<i>Eurya japonica</i>	
277	<i>Eurya nitida</i>	
278	<i>Exbucklandia populnea</i>	
279	<i>Excentrodendron tonkinense</i>	13
280	<i>Excoecaria cochinchinensis</i>	
281	<i>Fibraurea recisa</i>	13 21 25 35 46
282	<i>Fibraurea tinctoria</i>	13 19 46
283	<i>Ficus auriculata</i>	13
284	<i>Ficus benjamina</i>	
285	<i>Ficus fulva</i>	20 23
286	<i>Ficus heterophylla</i>	2 20
287	<i>Ficus hispida</i>	
288	<i>Ficus ischnopoda</i>	
289	<i>Ficus racemosa</i>	
290	<i>Ficus semicordata</i>	
291	<i>Ficus tinctoria</i>	13 20
292	<i>Ficus variolosa</i>	41
293	<i>Ficus vasculosa</i>	
294	<i>Fimbristylis dichotoma</i>	
295	<i>Fimbristylis fusca</i>	
296	<i>Fimbristylis miliacea</i>	
297	<i>Fissistigma bracteolatum</i>	
298	<i>Fissistigma polyanthoides</i>	
299	<i>Flacourtia jangomas</i>	
300	<i>Flemingia stricta</i>	
301	<i>Flueggea virosa</i>	38
302	<i>Fraxinus chinensis</i>	
303	<i>Gahnia tristis</i>	
304	<i>Garcinia multiflora</i>	35
305	<i>Garcinia oblongifolia</i>	35 38
306	<i>Garuga pinnata</i>	10 35 38
307	<i>Gelsemium elegans</i>	23 41 50
308	<i>Geranium nepalense</i>	20
309	<i>Gerbera piloselloides</i>	13 17 25 30 35 41 47
310	<i>Gironniera subaequalis</i>	
311	<i>Glochidion eriocarpum</i>	
312	<i>Glochidion rubrum</i>	
313	<i>Glycosmis parviflora</i>	41
314	<i>Gmelina arborea</i>	12 17
315	<i>Gnaphalium hypoleucum</i>	2 10 17 20 22 42
316	<i>Gnaphalium luteo-album</i>	
317	<i>Gomphandra mollis</i>	17
318	<i>Gomphandra tetrandra</i>	17
319	<i>Gomphostemma chinense</i>	
320	<i>Gomphostemma leptodon</i>	35
321	<i>Goodyera schlechtendaliana</i>	17
322	<i>Grewia asiatica</i>	20
323	<i>Grewia hirsuta</i>	35
324	<i>Grewia urenifolia</i>	

325	<i>Gymnopetalum cochinchinense</i>	
326	<i>Gymnopetalum integrifolium</i>	
327	<i>Gynostemma pentaphyllum</i>	
328	<i>Hedera sinensis</i>	17 20 26 45
329	<i>Hedyotis auricularia</i>	13 17 35 46
330	<i>Hedyotis biflora</i>	17 20
331	<i>Hedyotis capitellata</i>	28 38
332	<i>Hedyotis corymbosa</i>	17 20 26 46
333	<i>Hedyotis crassifolia</i>	13 17 26 28 35 41 46
334	<i>Hedyotis scandens</i>	6 31 39
335	<i>Helicia nilagirica</i>	46
336	<i>Helicia robusta</i>	
337	<i>Helicteres angustifolia</i>	13 17 19 23 28 44 46 50
338	<i>Helicteres hirsuta</i>	5 13 17 19 44
339	<i>Helicteres viscida</i>	13 17 23
340	<i>Heliotropium indicum</i>	13 20 39
341	<i>Helixanthera parasitica</i>	
342	<i>Heteropanax fragrans</i>	17 20 38 45
343	<i>Heterosmilax gaudichaudiana</i>	
344	<i>Hodgsonia macrocarpa</i>	13 38
345	<i>Homalomena occulta</i>	
346	<i>Houttuynia cordata</i>	7 13 15 17 30 42 44 46 47
347	<i>Hoya villosa</i>	41
348	<i>Hydnocarpus annamensis</i>	
349	<i>Hydnocarpus hainanensis</i>	20
350	<i>Hydrangea macrophylla</i>	17 19
351	<i>Hydrocotyle nepalensis</i>	13 41
352	<i>Hypericum hookerianum</i>	
353	<i>Hypericum japonicum</i>	17 26 33 41 44 46
354	<i>Hypericum uralum</i>	14 15 26
355	<i>Ilex cymosa</i>	17
356	<i>Ilex ficoidea</i>	
357	<i>Ilex macrocarpa</i>	
358	<i>Ilex triflora</i>	
359	<i>Illicium majus</i>	
360	<i>Impatiens balsamina</i>	17 20 41
361	<i>Impatiens claviger</i>	21
362	<i>Imperata cylindrica</i>	15
363	<i>Indigofera tinctoria</i>	26 28
364	<i>Iodes cirrhosa</i>	
365	<i>Iodes vitiginea</i>	47
366	<i>Ipomoea triloba</i>	45
367	<i>Iris japonica</i>	
368	<i>Itea chinensis</i>	20 41
369	<i>Itoa orientalis</i>	20 41
370	<i>Ixora coccinea</i>	13 15 20 35 40 42
371	<i>Ixora henryi</i>	17
372	<i>Jasminum coarctatum</i>	
373	<i>Jasminum lanceolarium</i>	20 41
374	<i>Jatropha curcas</i>	
375	<i>Justicia procumbens</i>	13 26 30 35 46 47
376	<i>Kadsura heteroclita</i>	13 20 41 46
377	<i>Kaempferia galanga</i>	7 19 20 49
378	<i>Knema globularia</i>	
379	<i>Kydia calycina</i>	20 25
380	<i>Lactuca indica</i>	22 50
381	<i>Lagerstroemia calyculata</i>	
382	<i>Lantana camara</i>	16 20 22 35
383	<i>Laportea interrupta</i>	

384	<i>Leea indica</i>	20 44
385	<i>Leonurus japonicus</i>	30 35 47
386	<i>Leucaena leucocephala</i>	
387	<i>Ligustrum indicum</i>	17
388	<i>Ligustrum sinense</i>	13 26 35 37 38 41
389	<i>Limnophila chinensis</i>	8 17 35 43 49
390	<i>Lindera caudata</i>	
391	<i>Liparis bootanensis</i>	35
392	<i>Liparis nervosa</i>	17
393	<i>Liquidambar formosana</i>	7 10 13 17 20 41 42
394	<i>Litsea cubeba</i>	17 20 41 42
395	<i>Litsea glutinosa</i>	21 46
396	<i>Litsea monopetala</i>	20
397	<i>Litsea rotundifolia</i>	20 41 45
398	<i>Litsea rubescens</i>	
399	<i>Litsea umbellata</i>	35
400	<i>Litsea verticillata</i>	
401	<i>Lobelia nicotianifolia</i>	
402	<i>Lonicera acuminata</i>	
403	<i>Lonicera japonica</i>	13 20 35 44
404	<i>Luculia pinceana</i>	
405	<i>Ludwigia adscendens</i>	17 44
406	<i>Ludwigia octovalvis</i>	13 15 31 35 45
407	<i>Lycianthes biflora</i>	35 40
408	<i>Lyonia ovalifolia</i>	
409	<i>Lysidice rhodostegia</i>	
410	<i>Lysimachia decurrens</i>	41
411	<i>Lysionotus pauciflorus</i>	20 41 42
412	<i>Macaranga denticulata</i>	
413	<i>Macaranga henryi</i>	
414	<i>Machilus thunbergii</i>	
415	<i>Madhuca pasquieri</i>	38
416	<i>Maesa japonica</i>	12
417	<i>Maesa perlarius</i>	
418	<i>Maesa ramentacea</i>	
419	<i>Mallotus apelta</i>	17
420	<i>Mallotus barbatulus</i>	
421	<i>Mallotus paniculatus</i>	
422	<i>Mallotus philippinensis</i>	
423	<i>Malvastrum coromandelinum</i>	20 26 46
424	<i>Mappianthus iodoides</i>	17 20 41 42
425	<i>Markhamia stipulata</i>	
426	<i>Marsdenia tinctoria</i>	
427	<i>Mastixia arborea</i>	
428	<i>Mazus pumilus</i>	8 17 38
429	<i>Medinilla assamica</i>	
430	<i>Melastoma sanguineum</i>	7 35 45
431	<i>Melia azedarach</i>	35
432	<i>Meliosma henryi</i>	
433	<i>Memecylon edule</i>	2 12 17
434	<i>Merremia bimbim</i>	15
435	<i>Merremia boisiana</i>	
436	<i>Merremia hederacea</i>	35
437	<i>Merremia umbellata</i>	
438	<i>Michelia mediocris</i>	17
439	<i>Microglossa pyrifolia</i>	13 20 35
440	<i>Micromelum hirsutum</i>	
441	<i>Micromelum integerrimum</i>	13 41
442	<i>Micromelum minutum</i>	41

443	<i>Mikania cordata</i>	20
444	<i>Mimosa pudica</i>	10 18 19 20 22 26 40
445	<i>Mimulus nepalensis</i>	
446	<i>Miscanthus sinensis</i>	
447	<i>Monochoria hastata</i>	
448	<i>Morinda umbellata</i>	13 20 26 35
449	<i>Mosla dianthera</i>	35
450	<i>Mukia maderaspatana</i>	7
451	<i>Muntingia calabura</i>	
452	<i>Musa paradisiaca</i>	
453	<i>Mussaenda cambodiana</i>	19
454	<i>Mussaenda glabra</i>	
455	<i>Mussaenda pubescens</i>	2 15 17 20 30 37 46 47
456	<i>Myosoton aquaticum</i>	7 13 14 35
457	<i>Myrsine seguinii</i>	
458	<i>Nelumbo nucifera</i>	1 2 4 22 23 46
459	<i>Neolitsea zeylanica</i>	
460	<i>Nephelium lappaceum</i>	13
461	<i>Nervilia aragoana</i>	41 50
462	<i>Nervilia fordii</i>	8 17 35
463	<i>Nymphaea pubescens</i>	13 17 23
464	<i>Nymphaea rubra</i>	23
465	<i>Ophiopogon reptans</i>	20
466	<i>Oreocnide integrifolia</i>	35 45
467	<i>Oreocnide obovata</i>	
468	<i>Ormosia fordiana</i>	26 38
469	<i>Oroxylum indicum</i>	13 17 26 28 40 49
470	<i>Orthosiphon spiralis</i>	18 30 43
471	<i>Osbeckia chinensis</i>	13 17 35 40 46 49
472	<i>Osmanthus matsumuranus</i>	
473	<i>Oxalis corniculata</i>	13 17 22 26 28 38 43 46
474	<i>Oxalis corymbosa</i>	13 15
475	<i>Oxyspora paniculata</i>	13 35
476	<i>Paederia foetida</i>	13 20 25 43 46
477	<i>Paederia scandens</i>	13 20 26 41 49
478	<i>Paliurus ramosissimus</i>	7 20 23 35
479	<i>Panax pseudo-ginseng</i>	17 41
480	<i>Pandanus humilis</i>	
481	<i>Pandanus tonkinensis</i>	47
482	<i>Panicum repens</i>	20 30 42
483	<i>Panicum sarmentosum</i>	
484	<i>Paramichelia baillonii</i>	
485	<i>Paraphlomis javanica</i>	
486	<i>Parthenium hysterophorus</i>	
487	<i>Paspalum conjugatum</i>	
488	<i>Paspalum scrobiculatum</i>	
489	<i>Passiflora foetida</i>	1 10 38 47
490	<i>Pauldopia ghorta</i>	
491	<i>Pegia sarmentosa</i>	
492	<i>Peliosanthes tetra</i>	
493	<i>Pellionia radicans</i>	7 17 41
494	<i>Peltophorum dasyrrhachis</i>	
495	<i>Peperomia tetraphylla</i>	20 35 41
496	<i>Pericampylus glaucus</i>	6 17 20 41
497	<i>Peripterygium quinquelobum</i>	7 17
498	<i>Petasites japonicus</i>	17 37 41
499	<i>Photinia beauverdiana</i>	41
500	<i>Phrynium placentarium</i>	13
501	<i>Phyla nodiflora</i>	7 13 15 35

502	<i>Phyllanthus emblica</i>	
503	<i>Phyllanthus urinaria</i>	
504	<i>Phyllostachys bambusoides</i>	
505	<i>Physalis angulata</i>	21
506	<i>Phytolacca americana</i>	4 13 15 20 24 47
507	<i>Piper arboricola</i>	
508	<i>Piper lolot</i>	7 45
509	<i>Pistacia weinmannifolia</i>	5 6 13 45 46
510	<i>Pittosporum podocarpum</i>	
511	<i>Plantago asiatica</i>	13 40
512	<i>Plantago major</i>	6 10 15 18 26 30 35 46 47
513	<i>Platycarya strobilacea</i>	
514	<i>Pluchea indica</i>	20 37
515	<i>Poikilospermum suaveolens</i>	6
516	<i>Polyalthia cerasoides</i>	
517	<i>Porana racemosa</i>	
518	<i>Porana volubilis</i>	
519	<i>Portulaca oleracea</i>	2 13 15 18 23 25 46
520	<i>Portulaca quadrifida</i>	13 23
521	<i>Pothos chinensis</i>	20 47
522	<i>Pothos repens</i>	
523	<i>Pothos scandens</i>	
524	<i>Pouzolzia sanguinea</i>	15 44
525	<i>Premna corymbosa</i>	13 14 20 34
526	<i>Prunella vulgaris</i>	2 21 26 28 50
527	<i>Prunus cerasoides</i>	43
528	<i>Prunus salicina</i>	2 7 13 47
529	<i>Pseudodissochaeta septentrionalis</i>	
530	<i>Psidium guajava</i>	13 46
531	<i>Psychotria balansae</i>	
532	<i>Psychotria sarmentosa</i>	
533	<i>Pterocarya stenoptera</i>	
534	<i>Pterospermum heterophyllum</i>	20
535	<i>Pterospermum lanceaefolium</i>	
536	<i>Pueraria montana</i>	8 13 17 35 44
537	<i>Quisqualis indica</i>	13
538	<i>Ranunculus cantoniensis</i>	7 10 20 26 40
539	<i>Rauvolfia verticillata</i>	17 22 45
540	<i>Renanthera coccinea</i>	28
541	<i>Rhamnus crenata</i>	
542	<i>Rhapis cochinchinensis</i>	13
543	<i>Rhododendron simsii</i>	
544	<i>Rhodoleia championii</i>	12
545	<i>Rhodomyrtus tomentosa</i>	13 22 25 46
546	<i>Rhus chinensis</i>	13 17 20 28 35 41
547	<i>Ricinus communis</i>	
548	<i>Rorippa benghanlensis</i>	10 13 26 30 39
549	<i>Rorippa globosa</i>	
550	<i>Rorippa indica</i>	13 15 17 20 26 35
551	<i>Rotala rotundifolia</i>	17 26
552	<i>Rubus cochinchinensis</i>	17 26 47
553	<i>Rubus leucanthus</i>	17
554	<i>Rubus multibracteatus</i>	13 20 23 46
555	<i>Rubus parvifolius</i>	26 30 35 41
556	<i>Ruellia repens</i>	35
557	<i>Sabia fasciculata</i>	20 41
558	<i>Saccharum spontaneum</i>	
559	<i>Sagittaria trifolia</i>	8
560	<i>Salacia chinensis</i>	20

561	<i>Salix babylonica</i>	19 20 35
562	<i>Salix tetrasperma</i>	
563	<i>Sambucus javanica</i>	15 20 30 41 47
564	<i>Sapindus saponaria</i>	2 5 28
565	<i>Sapium discolor</i>	
566	<i>Sapium rotundifolium</i>	
567	<i>Sapium sebiferum</i>	
568	<i>Saraca dives</i>	20 41
569	<i>Sarcopyramis nepalensis</i>	
570	<i>Saurauia tristyla</i>	7 17 26 38
571	<i>Saururus chinensis</i>	2 17 20 30 35 47
572	<i>Schefflera heptaphylla</i>	5 8 15 20 32 38 47
573	<i>Schefflera leucantha</i>	
574	<i>Schefflera pes-avis</i>	
575	<i>Schefflera petelotii</i>	
576	<i>Schefflera tonkinensis</i>	
577	<i>Schima wallichii</i>	17 38 46
578	<i>Scirpus grossus</i>	
579	<i>Scirpus wallichii</i>	
580	<i>Scleria terrestris</i>	
581	<i>Scoparia dulcis</i>	5 7 8 13 15 35
582	<i>Sedum lineare</i>	13 17 38 41
583	<i>Senna timoriensis</i>	
584	<i>Senna tora</i>	6 15 27 34
585	<i>Setaria glauca</i>	
586	<i>Setaria viridis</i>	
587	<i>Sida cordifolia</i>	12 15 17
588	<i>Sida rhombifolia</i>	2 5 18 19 20 35 44 46
589	<i>Siphocranion macranthum</i>	
590	<i>Skimmia japonica</i>	
591	<i>Smilax bracteata</i>	15
592	<i>Smilax gagnepainii</i>	
593	<i>Smilax glabra</i>	8
594	<i>Smilax megacarpa</i>	
595	<i>Smilax ovalifolia</i>	
596	<i>Solanum nigrum</i>	17 28 30 35 40
597	<i>Solanum spirale</i>	13 19 20 28 35 42
598	<i>Solanum torvum</i>	7 15 17 41
599	<i>Solanum verbascifolium</i>	17 20 35
600	<i>Solena amplexicaulis</i>	8 17 20 38 47
601	<i>Sonchus asper</i>	8 10
602	<i>Spatholobus parviflorus</i>	2 17 42
603	<i>Stachytarpheta jamaicensis</i>	8 15 20 35
604	<i>Stellaria vestita</i>	
605	<i>Stephania brachyandra</i>	
606	<i>Stephania dielsiana</i>	13
607	<i>Stephania japonica</i>	13 17
608	<i>Stephania longa</i>	
609	<i>Stephania rotunda</i>	35
610	<i>Sterculia foetida</i>	
611	<i>Sterculia hymenocalyx</i>	17 38
612	<i>Sterculia lanceolata</i>	2 35 41
613	<i>Streblus ilicifolius</i>	35
614	<i>Streptocaulon juvenas</i>	17
615	<i>Strobilanthes cusia</i>	
616	<i>Strophanthus caudatus</i>	
617	<i>Strophanthus divaricatus</i>	
618	<i>Strychnos axillaris</i>	3 20
619	<i>Styrax tonkinensis</i>	10 17

620	<i>Symplocos glauca</i>	
621	<i>Symplocos glomerata</i>	
622	<i>Symplocos lancifolia</i>	41
623	<i>Symplocos sumuntia</i>	
624	<i>Synedrella nodiflora</i>	20 45
625	<i>Tabernaemontana bovina</i>	
626	<i>Tacca chantrieri</i>	7 20 22 26
627	<i>Taxillus chinensis</i>	20 22
628	<i>Terminalia catappa</i>	7 13 20
629	<i>Terminalia myriocarpa</i>	15 17
630	<i>Tetracera asiatica</i>	2 20 46
631	<i>Tetracera scandens</i>	2 15 20 47
632	<i>Tetrameles nudiflora</i>	17 20 47
633	<i>Tetrastigma lanceolarium</i>	16 19 35
634	<i>Tetrastigma obtectum</i>	
635	<i>Tetrastigma rupestre</i>	
636	<i>Teucrium viscidum</i>	17 20 23 35 41
637	<i>Thalictrum foliosum</i>	6 35
638	<i>Thladiantha cordifolia</i>	8
639	<i>Thunbergia fragrans</i>	
640	<i>Thunbergia grandiflora</i>	41
641	<i>Thysanolaena maxima</i>	
642	<i>Tinospora sagittata</i>	8 16 17 35 50
643	<i>Tithonia diversifolia</i>	
644	<i>Toddalia asiatica</i>	35 37 41
645	<i>Toona sinensis</i>	13 17 20 23 35 46
646	<i>Toona surenii</i>	13 19
647	<i>Torenia glabra</i>	12
648	<i>Trema angustifolia</i>	41
649	<i>Trema orientalis</i>	
650	<i>Trevesia palmata</i>	3 14 20 41 47
651	<i>Trichosanthes rubriflos</i>	
652	<i>Trichosanthes tricuspidata</i>	35 45
653	<i>Tridax procumbens</i>	
654	<i>Tylophora ovata</i>	10 13 17 19 20 41 50
655	<i>Urena lobata</i>	17
656	<i>Uvaria calamistrata</i>	
657	<i>Valeriana hardwickii</i>	
658	<i>Ventilago leiocarpa</i>	20 42
659	<i>Verbena officinalis</i>	8 13 19 25 26 28 30 46 47 49
660	<i>Vernicia fordii</i>	
661	<i>Vernonia arborea</i>	
662	<i>Vernonia cinerea</i>	1 13 17 26 35
663	<i>Vernonia solanifolia</i>	20
664	<i>Viburnum cylindricum</i>	13 20 25 35 38 39 41
665	<i>Viburnum lutescens</i>	32
666	<i>Viburnum odoratissimum</i>	17 20 41
667	<i>Viscum articulatum</i>	2 13 20 40
668	<i>Viscum ovalifolium</i>	
669	<i>Vitex negundo</i>	2 3 5 10 13 19 26 40 42 46 47
670	<i>Vitex peduncularis</i>	19
671	<i>Vitex quinata</i>	20 41
672	<i>Wedelia biflora</i>	12 15 43
673	<i>Wedelia chinensis</i>	5 8 39 44 49
674	<i>Wikstroemia nutans</i>	
675	<i>Wrightia laevis</i>	
676	<i>Wrightia pubescens</i>	
677	<i>Xanthium inaequilaterum</i>	22 44
678	<i>Xerospermum noronhianum</i>	13

679	<i>Xylopi</i>	
680	<i>Xylosma longifolium</i>	37 41
681	<i>Zanthoxylum avicennae</i>	26 30 35 41
682	<i>Zanthoxylum nitidum</i>	7 28 41
683	<i>Zanthoxylum scandens</i>	
684	<i>Zehneria indica</i>	8 15 17
685	<i>Zingiber officinale</i>	10 13 20 47
686	<i>Zingiber zerumbet</i>	
687	<i>Ziziphus oenopia</i>	8 13

Coding: 1: Tranquillizer; 2: Vaginitis; 3: Paralytic; 4: Obese; 5: Flu; 6: Eyesore; 7: Toothache; 8: Detoxify; 9: Syphilis; 10: Asthma; 12: Gonorrhoea; 13: Dysentery; 14: Galactopoietic; 15: Diuretic; 16: Mumps; 17: Snake bite; 18: Urolithiasis; 19: Malaria; 20: Rheumatism; 21: Diabetes; 22: Heart and blood pressure diseases; 23: Haemorrhoids; 24: Cancer; 25: Gastritis; 26: Hepatitis; 27: Keratitis; 28: Sore throat; 29: Encephalitis; 30: Nephritis; 31: Sinusitis; 32: Sterile; 33: Cirrhosis; 34: Brain hemorrhage; 35: Pimple; 36: Hemostatic; 37: Fracture; 38: Burned; 39: Pneumonia; 40: Bronchitis; 41: Hurt fall; 42: Irregular menstruation; 43: Kidney stone; 44: Measles; 45: Headache; 46: Inflammatory bowel; 47: Oedema; 48: Otitis; 49: Pertussis; 50: Scrofulous (Note: 11: a disease is not mentioned, therefore, there are 49 diseases / medical uses)