

Table S1. Comparison of classifications of lycophyte and fern families of Vietnam in IFV and CPSV. (Scientific names in boldface were newly circumscribed for Vietnam).

IFV (1999)		CPSV (2001)		Phan (2010)	
Families	Genera	Families	Genera	Families	Genera
Psilotophyta				Psilotopsida	
1. Psilotaceae	<i>Psilotum</i>	1. Psilotaceae	<i>Psilotum</i>	1. Ophioglossaceae	<i>Botrychium</i> <i>Ophioglossum</i>
Lycopodiophyta				2. Psilotaceae	<i>Psilotum</i>
2. Lycopodiaceae	<i>Huperzia</i>	1. Lycopodiaceae	<i>Huperzia</i>		
	<i>Lycopodium</i>		<i>Lycopodiella</i>		
			<i>Lycopodium</i>		
3. Isoetaceae	<i>Isoetes</i>	2. Isoetaceae	<i>Isoetes</i>		
4. Selaginellaceae	<i>Selaginella</i>	3. Selaginellaceae	<i>Selaginella</i>		
Equisetophyta				Equisetopsida	
5. Equisetaceae	<i>Equisetum</i>	1. Equisetaceae	<i>Equisetum</i>	3. Equisetaceae	<i>Equisetum</i>
				Marattiopsida	
				4. Marattiaceae	<i>Angiopteris</i> <i>Christensenia</i> <i>Marattia</i>
Polypodiophyta				Polypodiopsida	
6. Adiantaceae	<i>Adiantum</i> <i>Cheilanthes</i> <i>Coniogramme</i> <i>Dryopteris</i> <i>Hemionitis</i> <i>Onychium</i> <i>Pellaea</i> <i>Pityrogramma</i> <i>Syngramma</i> <i>Taenitis</i> <i>Notholaena</i>	1. Adiantaceae	<i>Adiantum</i> <i>Cheilanthes</i> <i>Coniogramme</i> <i>Dryopteris</i> <i>Hemionitis</i> <i>Mildella</i> <i>Monachosorum</i> <i>Onychium</i> <i>Pellaea</i> <i>Pityrogramma</i> <i>Syngramma</i> <i>Taenitis</i>		
7. Aspleniaceae	<i>Asplenium</i> <i>Athyrium</i> <i>Cystopteris</i> <i>Diplazium</i>	2. Aspleniaceae	<i>Asplenium</i>	19. Aspleniaceae	<i>Asplenium</i> <i>Hymenophyllum</i>
8. Azollaceae	<i>Azolla</i>	3. Azollaceae	<i>Azolla</i>		
9. Blechnaceae	<i>Blechnum</i> <i>Brainea</i> <i>Woodwardia</i>	4. Blechnaceae	<i>Blechnum</i> <i>Brainea</i> <i>Stenochlaena</i> <i>Woodwardia</i>	22. Blechnaceae	<i>Blechnum</i> <i>Brainea</i> <i>Stenochlaena</i> <i>Woodwardia</i>
10. Cheiroleuriaceae	<i>Cheiroleuria</i>	5. Cheiroleuriaceae	<i>Cheiroleuria</i>		
11. Cyathaceae	<i>Cyathea</i>	6. Cyathaceae	<i>Cyathea</i>	15. Cyatheaceae	<i>Cyathea</i> <i>Alsophila</i> <i>Sphaeropteris</i>

IFV (1999)		CPSV (2001)		Phan (2010)	
Families	Genera	Families	Genera	Families	Genera
12. Davalliaceae	<i>Araiostegia</i> <i>Arthropteris</i> <i>Davallia</i> <i>Davalloides</i> <i>Humata</i> <i>Gymnogrammitis</i> <i>Nephrolepis</i> <i>Leucostegia</i> <i>Rhumohra</i> <i>Oleandra</i>	7. Davalliaceae	<i>Araiostegia</i>	27. Davalliaceae	<i>Araiostegia</i>
			<i>Davallia</i>		<i>Davallia</i>
			<i>Davalloides</i>		<i>Davalloides</i>
			<i>Gymnogrammitis</i>		
			<i>Leucostegia</i>		
			<i>Rhumohra</i>		
13. Dennstaedtiaceae	<i>Dennstaedtia</i> <i>Histiopteris</i> <i>Hypolepis</i> <i>Microlepia</i> <i>Monachosorium</i> <i>Pteridium</i> <i>Lindsaea</i> <i>Sphenomeris</i> <i>Tapeinidium</i>	8. Dennstaedtiaceae	<i>Dennstaedtia</i> <i>Histiopteris</i> <i>Hypolepis</i> <i>Microlepia</i>	17. Dennstaedtiaceae	<i>Dennstaedtia</i> <i>Histiopteris</i> <i>Hypolepis</i> <i>Microlepia</i> <i>Monachosorium</i> <i>Pteridium</i>
			<i>Pteridium</i>		
			<i>Lindsaea</i>	16. Lindsaeaceae	<i>Lindsaea</i>
			<i>Sphenomeris</i>		<i>Sphenomeris</i>
			<i>Tapeinidium</i>		<i>Tapeinidium</i>
14. Thyrsopteridaeae	<i>Cibotium</i>	9. Dicksoniaceae	<i>Cibotium</i>	14. Cibotiaceae	<i>Cibotium</i>
15. Dipteridaceae	<i>Dipteris</i>	10. Dipteridaceae	<i>Dipteris</i>	8. Dipteridaceae	<i>Cheiroleuria</i> <i>Dipteris</i>
16. Dryopteridaceae		11. Dryopteridaceae	<i>Acrophorus</i>	23. Dryopteridaceae	<i>Acrophorus</i> <i>Acrorumohra</i>
			<i>Arachniodes</i>		<i>Arachniodes</i>
			<i>Ctenitis</i>		<i>Ctenitis</i>
			<i>Ctenitopsis</i>		
			<i>Cyrtomium</i>		<i>Cyrtomium</i>
			<i>Cyrtogonellum</i>		<i>Cyrtogonellum</i>
			<i>Diacalpe</i>		
			<i>Didymochlaena</i>		<i>Didymochlaena</i>
			<i>Dryopteris</i>		<i>Dryopteris</i>
					<i>Elaphoglossum</i>
					<i>Hypodematum</i>
					<i>Leucostegia</i>
					<i>Lomagramma</i>
					<i>Peranema</i>
			<i>Hemigramma</i>		
			<i>Quercifilix</i>		
			<i>Polystichopsis</i>		
			<i>Polystichum</i>		<i>Polystichum</i>
			<i>Cyclopeltis</i>	24. Lomariopsidaceae	<i>Cyclopeltis</i>
			<i>Heterogrammum</i>	25. Tectariaceae	<i>Heterogrammum</i>
			<i>Pleocnemia</i>		<i>Pleocnemia</i>
			<i>Pteridrys</i>		<i>Pteridrys</i>
			<i>Tectaria</i>		<i>Tectaria</i>
17. Gleicheniaceae	<i>Dicranopteris</i>	12. Gleicheniaceae	<i>Dicranopteris</i>	7. Gleicheniaceae	<i>Dicranopteris</i>

IFV (1999)		CPSV (2001)		Phan (2010)	
Families	Genera	Families	Genera	Families	Genera
	<i>Diplopterygium</i> <i>Gleichenia</i>		<i>Diplopterygium</i> <i>Gleichenia</i>		<i>Diplopterygium</i> <i>Gleichenia</i>
18. Grammitidaceae	<i>Acrosorus</i> <i>Calymmodon</i> <i>Ctenopteris</i> <i>Grammitis</i> <i>Prosaptia</i> <i>Scleroglossum</i> <i>Xiphopteris</i> <i>Loxogramme</i>	13. Grammitidaceae	<i>Acrosorus</i> <i>Calymmodon</i> <i>Ctenopteris</i> <i>Grammitis</i> <i>Prosaptia</i> <i>Scleroglossum</i> <i>Xiphopteris</i>		
19. Hymenophylaceae	<i>Cephalomanes</i> <i>Crepidomanes</i> <i>Gnocormus</i> <i>Hymenophyllum</i> <i>Mecodium</i> <i>Meringium</i> <i>Microgonium</i> <i>Sphaerocionium</i> <i>Trichomanes</i> <i>Vandenboschia</i>	14. Hymenophyllaceae	<i>Cephalomanes</i> <i>Crepidomanes</i> <i>Hymenophyllum</i>	6. Hymenophyllaceae	<i>Cephalomanes</i> <i>Abrodictyum</i> <i>Crepidomanes</i> <i>Didymoglossum</i> <i>Hymenophyllum</i>
20. Lomariopsidaeae	<i>Bolbitis</i> <i>Egenolfia</i> <i>Elaphoglossum</i> <i>Lomariopsis</i>	15. Lomariopsidaceae	<i>Bolbitis</i> <i>Elaphoglossum</i> <i>Lomagramma</i> <i>Teratophyllum</i> <i>Lomariopsis</i>	24. Lomariopsidaceae	<i>Lomariopsis</i>
21. Marattiaceae	<i>Marattia</i>	16. Marattiaceae	<i>Marattia</i>		
22. Angiopteridaceae	<i>Angiopteris</i> <i>Archangiopteris</i>		<i>Angiopteris</i>		
23. Marsileaceae	<i>Marsilea</i>	17. Marsileaceae	<i>Marsilea</i>	11. Marsileaceae	<i>Marsilea</i>
		18. Oleandraceae	<i>Arthropteris</i> <i>Nephrolepis</i> <i>Oleandra</i>	25. Tectariaceae	<i>Arthropteris</i>
				24. Lomariopsidaceae	<i>Nephrolepis</i>
				26. Oleandraceae	<i>Oleandra</i>
24. Ophioglossaceae	<i>Botrychium</i> <i>Helminthostachys</i> <i>Ophioglossum</i>	19. Ophioglossaceae	<i>Botrychium</i> <i>Helminthostachys</i> <i>Ophioglossum</i>		
25. Osmundaceae	<i>Osmunda</i>	20. Osmundaceae	<i>Osmunda</i>	5. Osmundaceae	<i>Osmunda</i>
26. Parkeriaceae	<i>Ceratopteris</i>	21. Parkeriaceae	<i>Ceratopteris</i>		
27. Plagiogyriaceae	<i>Plagiogyria</i>	22. Plagiogyriaceae	<i>Plagiogyria</i>	13. Plagiogyriaceae	<i>Plagiogyria</i>
28. Polypodiaceae	<i>Aglaomorpha</i> <i>Arthromeris</i> <i>Belvisia</i>	23. Polypodiaceae	<i>Aglaomorpha</i> <i>Arthromeris</i> <i>Belvisia</i>	28. Polypodiaceae	<i>Aglaomorpha</i> <i>Arthromeris</i> <i>Belvisia</i>

IFV (1999)	CPSV (2001)	Phan (2010)			
Families	Genera	Families	Genera	Families	Genera
	<i>Christiopteris</i>		<i>Christiopteris</i>		<i>Caobangia</i>
	<i>Colyssis</i>		<i>Colyssis</i>		<i>Christiopteris</i>
	<i>Crypsinus</i>		<i>Crypsinus</i>		
	<i>Drynaria</i>		<i>Drynaria</i>		<i>Drynaria</i>
	<i>Goniophlebium</i>		<i>Goniophlebium</i>		<i>Goniophlebium</i>
					<i>Gymnogrammitis</i>
					<i>Kontumia</i>
			<i>Lecanopteris</i>		<i>Lecanopteris</i>
	<i>Lemmaphyllum</i>		<i>Lemmaphyllum</i>		<i>Lemmaphyllum</i>
	<i>Lepisorus</i>		<i>Lepisorus</i>		<i>Lepisorus</i>
	<i>Leptochilus</i>		<i>Leptochilus</i>		<i>Leptochilus</i>
			<i>Loxogramme</i>		<i>Loxogramme</i>
					<i>Micropolyptodium</i>
	<i>Microsorum</i>		<i>Microsorum</i>		<i>Microsorum</i>
	<i>Myrmecopteris</i>				
	<i>Neocheiropteris</i>		<i>Neocheiropteris</i>		<i>Neocheiropteris</i>
	<i>Paragramma</i>		<i>Paragramma</i>		
	<i>Phymatosorus</i>		<i>Phymatosorus</i>		
	<i>Photinopteris</i>				
	<i>Platycerium</i>		<i>Platycerium</i>		<i>Platycerium</i>
					<i>Polypodioides</i>
	<i>Polypodium</i>		<i>Polypodium</i>		<i>Polypodium</i>
	<i>Pyrrosia</i>		<i>Pyrrosia</i>		<i>Pyrrosia</i>
	<i>Selliguea</i>		<i>Selliguea</i>		<i>Selliguea</i>
29. Pteridaceae	<i>Acrostichum</i>	24. Pteridaceae	<i>Acrostichum</i>	18. Pteridaceae	<i>Acrostichum</i>
					<i>Adiantum</i>
					<i>Aleuritopteris</i>
					<i>Anogramma</i>
					<i>Antrophyum</i>
					<i>Ceratopteris</i>
					<i>Cheilanthes</i>
					<i>Coniogramme</i>
					<i>Dryopteris</i>
					<i>Hemionitis</i>
					<i>Mildella</i>
					<i>Notholaena</i>
					<i>Onychium</i>
					<i>Pellaea</i>
					<i>Pityrogramma</i>
	<i>Pteris</i>		<i>Pteris</i>		<i>Pteris</i>
					<i>Syngamma</i>
					<i>Taenitis</i>
					<i>Vittaria</i>
30. Salviniaceae	<i>Salvinia</i>	25. Salviniaceae	<i>Salvinia</i>	12. Salviniaceae	<i>Salvinia</i>
					<i>Azolla</i>
31. Schizaeaceae	<i>Schizaea</i>	26. Schizaeaceae	<i>Schizaea</i>	10. Schizaeaceae	<i>Schizaea</i>
	<i>Lygodium</i>		<i>Lygodium</i>	9. Lygodiaceae	<i>Lygodium</i>
32. Thelypteridaeae	<i>Ampelopteris</i>	27. Thelypteridaceae	<i>Ampelopteris</i>	20. Thelypteridaceae	

IFV (1999)	CPSV (2001)	Phan (2010)			
Families	Genera	Families	Genera	Families	Genera
			<i>Amphineuron</i>		
	<i>Christella</i>		<i>Christella</i>		
	<i>Coryphopteris</i>		<i>Coryphopteris</i>		
	<i>Cyclogramma</i>		<i>Cyclogramma</i>		
	<i>Cyclosorus</i>		<i>Cyclosorus</i>		<i>Cyclosorus</i>
			<i>Glaphyropteridopsis</i>		
			<i>Macrothelypteris</i>		<i>Macrothelypteris</i>
	<i>Metathelypteris</i>		<i>Metathelypteris</i>		
			<i>Parathelypteris</i>		
			<i>Phegopteris</i>		<i>Phegopteris</i>
	<i>Pneumatopteris</i>		<i>Pneumatopteris</i>		
	<i>Pronephrium</i>		<i>Pronephrium</i>		
	<i>Pseudocyclosorus</i>		<i>Pseudocyclosorus</i>		
	<i>Pseudophegopteris</i>		<i>Pseudophegopteris</i>		<i>Pseudophegopteris</i>
	<i>Sphaerostephanos</i>		<i>Sphaerostephanos</i>		
	<i>Stegnogramma</i>		<i>Stegnogramma</i>		
	<i>Thelypteris</i>		<i>Thelypteris</i>		<i>Thelypteris</i>
	<i>Trigonospora</i>		<i>Trigonospora</i>		
33. Vittariaceae	<i>Antrophyum</i>	28. Vittariaceae	<i>Antrophyum</i>		
	<i>Vittaria</i>		<i>Vittaria</i>		
		29. Woodsiaceae	<i>Athyrium</i>	21. Woodsiaceae	<i>Athyrium</i>
			<i>Cornopteris</i>		<i>Acystopteris</i>
			<i>Cystopteris</i>		<i>Cornopteris</i>
			<i>Lunathyrium</i>		<i>Deparia</i>
			<i>Diplaziopsis</i>		<i>Diplaziopsis</i>
			<i>Diplazium</i>		<i>Diplazium</i>
			<i>Hypodematum</i>		<i>Rhachidosorus</i>

Table S2. Comparison of classifications of gymnosperm families of Vietnam in IFV and CPSV. (Generic names in boldface were newly recorded for Vietnam).

IFV (1999)		CPSV (2001)		Nguyen and Thomas (2005)	
Families	Genera	Families	Genera	Families	Genera
1. Cycadaceae	<i>Cycas</i>	4. Cycadaceae	as IFV	not recognized	not recognized
2. Gnetaceae	<i>Gnetum</i>	5. Gnetaceae	as IFV	not recognized	not recognized
3. Gingkoaceae	<i>Ginkgo</i>	not recognized	not recognized	not recognized	not recognized
4. Pinaceae	<i>Abies</i> <i>Keteleeria</i> <i>Pinus</i> not recognized <i>Tsuga</i> <i>Araucaria</i>	6. Pinaceae	as IFV as IFV as IFV not recognized as IFV	3. Pinaceae	as IFV as IFV as IFV <i>Pseudotsuga</i> as IFV
5. Taxodiaceae	<i>Cunninghamia</i> <i>Glyptostrobus</i> <i>Taxodium</i> <i>Cryptomeria</i>	9. Taxodiaceae	as IFV as IFV as IFV not recognized		<i>Cunninghamia</i> (in Cupressaceae) <i>Glyptostrobus</i> (in Cupressaceae) not recognized not recognized
6. Cupressaceae	<i>Calocedrus</i> <i>Chamaecyparis</i> <i>Cupressus</i> <i>Fokienia</i> <i>Sabina</i> not recognized <i>Thuja</i> not recognized not recognized	3. Cupressaceae	as IFV not recognized as IFV as IFV not recognized not recognized Juniperus as IFV not recognized not recognized	2. Cupressaceae	as IFV not recognized as IFV as IFV not recognized not recognized not recognized <i>Taiwania</i> <i>Xanthocyparis</i>
7. Podocarpaceae	not recognized <i>Dacrydium</i> <i>Nageia</i> <i>Decussocarpus</i> <i>Podocarpus</i>	7. Podocarpaceae	<i>Dacrycarpus</i> as IFV as IFV not recognized as IFV	4. Podocarpaceae	as CPSV as IFV as IFV not recognized as IFV
8. Taxaceae	<i>Taxus</i>	8. Taxaceae	as IFV	6. Taxaceae	as IFV
9. Cephalotaxaceae	<i>Cephalotaxus</i>	2. Cephalotaxaceae	as IFV	1. Cephalotaxaceae	as IFV
10. Amentotaxaceae	<i>Amentotaxus</i>	9. Taxaceae	as IFV	5. Taxaceae	as IFV

Table S3. Comparison of classifications of angiosperm families of Vietnam in IFV and CPSV. (IFV families in boldface were newly circumscribed in CPSV).

IFV (1999–2003)	CPSV (2001–2005)
MAGNOLIOPSIDA	
1. Magnoliaceae	1. Magnoliaceae
2. Annonaceae	2. Annonaceae
3. Myristicaceae	3. Myristicaceae
4. Chloranthaceae	6. Chloranthaceae
5. Saururaceae	9. Saururaceae
6. Piperaceae	10. Piperaceae
7. Aristolochiaceae	11. Aristolochiaceae
8. Illiciaceae	17. Illiciaceae
9. Schisandraceae	18. Schisandraceae
10. Nelumbonaceae	19. Nelumbonaceae
11. Nymphaeaceae	14. Nymphaeaceae
12. Barclayaceae	15. Barclayaceae
13. Cabombaceae	13. Cabombaceae
14. Ceratophyllaceae	16. Ceratophyllaceae
15. Ranunculaceae	23. Ranunculaceae
16. Berberidaceae	24. Berberidaceae
17. Sargentodoxaceae	21. Sargentodoxaceae
18. Lardizabalaceae	20. Lardizabalaceae
19. Menispermaceae	22. Menispermaceae
20. Papaveraceae	25. Papaveraceae
21. Fumariaceae	26. Fumariaceae
22. Lauraceae	8. Lauraceae
23. Monimiaceae	4. Monimiaceae
24. Hernandiaceae	5. Hernandiaceae
25. Dilleniaceae	54. Dilleniaceae
26. Actinidiaceae	81. Actinidiaceae
27. Paeoniaceae	55. Paeoniaceae
28. Ochnaceae	56. Ochnaceae
29. Theaceae	59. Theaceae
30. Dipterocarpaceae	57. Dipterocarpaceae
31. Ancistrocladaceae	58. Ancistrocladaceae
32. Stachyuraceae	66. Stachyuraceae
33. Pentaphylaceae	60. Pentaphylaceae
34. Elatinaceae	64. Elatinaceae
35. Guttiferae	62. Clusiaceae
36. Elaeocarpaceae	93. Elaeocarpaceae
37. Tiliaceae	94. Tiliaceae
38. Sterculiaceae	95. Sterculiaceae
39. Bombacaceae	96. Bombacaceae
40. Malvaceae	97. Malvaceae
41. Nepenthaceae	118. Nepenthaceae
42. Droseraceae	117. Droseraceae
43. Flacourtiaceae	65. Flacourtiaceae
44. Bixaceae	68. Bixaceae
45. Cochlospermaceae	69. Cochlospermaceae
46. Violaceae	67. Violaceae

47. Tamaricaceae
48. Turneraceae
49. Passifloraceae
50. Caricaceae
51. Cucurbitaceae
52. Datiscaeae
53. Begoniaceae
54. Capparaceae
55. Brassicaceae
56. Moringaceae
57. Clethraceae
58. Epacridaceae
59. Ericaceae
60. Sapotaceae
61. Ebenaceae
62. Styracaceae
63. Symplocaceae
64. Myrsinaceae
65. Primulaceae
66. Phytolaccaceae
67. Nyctaginaceae
68. Aizoaceae
69. Cactaceae
70. Chenopodiaceae
71. Amaranthaceae
72. Portulacaceae
73. Basellaceae
74. Caryophyllaceae
75. Polygonaceae
76. Plumbaginaceae
77. Connaraceae
78. Pittosporaceae
79. Anisophylleaceae
80. Crassulaceae
81. Rosaceae
82. Suriannaceae
83. Saxifragaceae
84. Fabaceae
85. Elaeagnaceae
86. Proteaceae
87. Podostemaceae
88. Tritischaceae
89. Haloragaceae
90. Lecythidaceae
91. Sonneratiaceae
92. Lythraceae
93. Crypteroniaceae
94. Thymelaeaceae
95. Trapaceae
96. Myrtaceae
97. Punicaceae
79. Tamaricaceae
71. Turneraceae
70. Passifloraceae
72. Caricaceae
73. Cucurbitaceae
74. Datiscaeae
75. Begoniaceae
76. Capparaceae
78. Brassicaceae
77. Moringaceae
82. Clethraceae
84. Epacridaceae
83. Ericaceae
90. Sapotaceae
89. Ebenaceae
87. Styracaceae
88. Symplocaceae
91. Myrsinaceae
92. Primulaceae
41. Phytolaccaceae
42. Nyctaginaceae
44. Aizoaceae
46. Cactaceae
51. Chenopodiaceae
50. Amaranthaceae
47. Portulacaceae
48. Basellaceae
49. Caryophyllaceae
52. Polygonaceae
53. Plumbaginaceae
116. Connaraceae
107. Pittosporaceae
124. Anisophylleaceae
109. Crassulaceae
111. Rosaceae
not recognized
110. Saxifragaceae
115. Fabaceae
182. Elaeagnaceae
183. Proteaceae
119. Podostemaceae
not recognized
131. Haloragaceae
130. Lecythidaceae
121. Sonneratiaceae
120. Lythraceae
103. Crypteroniaceae
102. Thymelaeaceae
129. Trapaceae
126. Myrtaceae
122. Punicaceae

98. Onagraceae
99. Melastomataceae
100. Combretaceae
101. Rhizophoraceae
102. Alangiaceae
103. Nyssaceae
104. Cornaceae
105. Olacaceae
106. Opiliaceae
107. Santalaceae
108. Loranthaceae
109. Balanophoraceae
110. Celastraceae
111. Salvadoraceae
112. Aquifoliaceae
113. Icacinaceae
114. Cardiopteridaceae
115. Dichapetalaceae
116. Pandaceae
117. Buxaceae
118. Euphorbiaceae
119. Oxalidaceae
120. Geraniaceae
121. Tropaealaceae
122. Balsaminaceae
123. Erythroxylaceae
124. Ixonanthaceae
125. Linaceae
126. Bretschneideraceae
127. Sapindaceae
128. Staphyleaceae
129. Hippocastanaceae
130. Aceraceae
131. Sabiaceae
132. Malpighiaceae
133. Polygalaceae
134. Xanthophyllaceae
135. Burseraceae
136. Anacardiaceae
137. Simaroubaceae
138. Meliaceae
139. Rutaceae
140. Zygophyllaceae
141. Rhamnaceae
142. Leeaceae
143. Vitaceae
144. Apiaceae
145. Araliaceae
146. Aralidaceae
147. Platanaceae
148. Eucomiaceae
128. Onagraceae
127. Melastomataceae
125. Combretaceae
123. Rhizophoraceae
157. Alangiaceae
154. Nyssaceae
155. Cornaceae
172. Olacaceae
174. Opiliaceae
177. Santalaceae
179. Loranthaceae
181. Balanophoraceae
166. Celastraceae
165. Salvadoraceae
163. Aquifoliaceae
164. Icacinaceae
176. Cardiopteridaceae
101. Dichapetalaceae
100A. Pandaceae
98. Buxaceae
100. Euphorbiaceae
148. Oxalidaceae
149. Geraniaceae
150. Tropaealaceae
151. Balsaminaceae
145. Erythroxylaceae
144. Ixonanthaceae
143. Linaceae
140. Bretschneideraceae
138. Sapindaceae
136. Staphyleaceae
139. Hippocastanaceae
137. Aceraceae
141. Sabiaceae
146. Malpighiaceae
152. Polygalaceae
not recognized
132A. Burseraceae
132. Anacardiaceae
133. Simaroubaceae
135. Meliaceae
134. Rutaceae
147. Zygophyllaceae
168. Rhamnaceae
170. Leeaceae
169. Vitaceae
162. Apiaceae
161. Araliaceae
161A. Aralidaceae
29. Platanaceae
30. Eucomiaceae

149. Hamamelidaceae
150. Daphniphyllaceae
 151. Ulmaceae
 152. Cannabaceae
 153. Salicaceae
 154. Moraceae
 155. Urticaceae
156. Rhoipteleaceae
157. Juglandaceae
 158. Myricaceae
 159. Fagaceae
 160. Betulaceae
161. Casuarinaceae
162. Loganiaceae
163. Gentianaceae
164. Apocynaceae
165. Asclepiadaceae
 166. Solanaceae
167. Convolvulaceae
 168. Cuscutaceae
169. Menyanthaceae
170. Polemoniaceae
171. Hydrophyllaceae
 172. Boraginaceae
 173. Verbenaceae
 174. Lamiaceae
175. Callitrichiaceae
176. Plantaginaceae
177. Buddlejaceae
 178. Oleaceae
179. Scrophulariaceae
 180. Myoporaceae
 181. Gesneriaceae
 182. Acanthaceae
 183. Pedaliaceae
 184. Bignoniaceae
 185. Lentibulariaceae
186. Pentaphragmaceae
187. Campanulaceae
 188. Stylidiaceae
 189. Goodeniaceae
 190. Rubiaceae
191. Carlemanniaceae
192. Caprifoliaceae
193. Valerianaceae
194. Dipsacaceae
195. Asteraceae
not recognized
not recognized
not recognized
not recognized
27. Hamamelidaceae
99. Daphniphyllaceae
 31. Ulmaceae
 33. Cannabaceae
 80. Salicaceae
 32. Moraceae
 34. Urticaceae
39. Rhoipteleaceae
40. Juglandaceae
 38. Myricaceae
 36. Fagaceae
 37. Betulaceae
35. Casuarinaceae
187. Loganiaceae
191. Gentianaceae
189. Apocynaceae
190. Asclepiadaceae
 199. Solanaceae
195. Convolvulaceae
 196. Cuscutaceae
192. Menyanthaceae
194. Polemoniaceae
197. Hydrophyllaceae
 198. Boraginaceae
 211. Verbenaceae
 212. Lamiaceae
213. Callitrichiaceae
210. Plantaginaceae
200. Buddlejaceae
 171. Oleaceae
201. Scrophulariaceae
 208. Myoporaceae
 205. Gesneriaceae
 209. Acanthaceae
 203. Pedaliaceae
 202. Bignoniaceae
207. Lentibulariaceae
 not recognized
214. Campanulaceae
 217. Stylidiaceae
218. Goodeniaceae
 193. Rubiaceae
 not recognized
184. Caprifoliaceae
185. Valerianaceae
186. Dipsacaceae
219. Asteraceae
7. Calycanthaceae
 12. Rafflesiaceae
28. Altingiaceae
43. Molluginaceae

214. Typhaceae	265. Typhaceae
215. Sparganiaceae	264. Sparganiaceae
216. Arecaceae	260. Arecaceae
217. Bromeliaceae	251. Bromeliaceae
218. Musaceae	241. Musaceae
219. Strelitziaceae	240. Strelitziaceae
220. Heliconiaceae	242. Heliconiaceae
221. Lowiaceae	243. Lowiaceae
222. Zingiberaceae	245. Zingiberaceae
223. Cannaceae	246. Cannaceae
224. Marantaceae	247. Marantaceae
225. Philydraceae	237. Philydraceae
226. Pontederiaceae	236. Pontederiaceae
227. Hemodoraceae	not recognized
228. Liliaceae	229. Liliaceae
229. Smilaceae	232. Smilaceae
230. Amaryllidaceae	229.3. Amaryllidaceae
231. Iridaceae	238. Iridaceae
232. Cyperaceae	250. Cyperaceae
233. Poaceae	259. Poaceae
234. Agavaceae	229.1. Agavaceae
235. Hanguanaceae	258. Hanguanaceae
236. Taccaceae	235. Taccaceae
237. Stemonaceae	233. Stemonaceae
238. Dioscoreaceae	234. Dioscoreaceae
239. Burmanniaceae	239. Burmanniaceae
240. Thismiaceae	not recognized
241. Orchidaceae	248. Orchidaceae
not recognized	225. Ruppiaceae
not recognized	229.2. Alliaceae
not recognized	229.4. Asphodelaceae
not recognized	229.5. Asteliaceae
not recognized	229.6. Convallariaceae
not recognized	229.7. Dracaenaceae
not recognized	229.8. Hemerocallidaceae
not recognized	229.9. Hyacinthaceae
not recognized	229.10. Liliaceae s.s
not recognized	229.11. Melanthiaceae
not recognized	229.12. Nolinaceae
not recognized	229.13. Phormiaceae
not recognized	229.14. Trilliaceae
not recognized	230. Hypoxidaceae
not recognized	231. Asparagaceae
not recognized	244. Costaceae

Table S4. Classification of lycophytes and ferns of Vietnam according to PPG 1 classification system. (Families in boldface were newly circumscribed for Vietnam).

PPG I	Lycophytes and Ferns of Vietnam According to PPG 1	Previous Treatments		
		IFV (1999)	CPSV (2001)	Phan (2010)
LYCOPODIOPSIDA				
A. Lycopodiales				
1. Lycopodiaceae				
Lycopodielloideae	<i>Lycopodiella</i>	not recognized	<i>Lycopodiella</i>	Not included
Lycopodioideae	<i>Lycopodium</i>	<i>Lycopodium</i>	as IFV	Not included
Huperzioideae	<i>Huperzia</i>	<i>Huperzia</i>	as IFV	Not included
B. Isoetales				
2. Isoetaceae	<i>Isoetes</i>	<i>Isoetes</i>	as IFV	Not included
C. Selaginellales				
3. Selaginellaceae	<i>Selaginella</i>	<i>Selaginella</i>	as IFV	Not included
POLYPODIOPSIDA				
Equisetidae				
D. Equisetales				
4. Equisetaceae	<i>Equisetum</i>	<i>Equisetum</i>	as IFV	as IFV
Ophioglossidae				
E. Psilotales				
5. Psilotaceae	<i>Psilotum</i>	<i>Psilotum</i>	as IFV	as IFV
F. Ophioglossales				
6. Ophioglossaceae				
Helminthostachyoidae	<i>Helminthostachys</i>	<i>Helminthostachys</i>	as IFV	as IFV
Ophioglossoidea	<i>Ophioglossum</i>	<i>Ophioglossum</i>	as IFV	as IFV
Botrychioideae	<i>Botrychium</i>	<i>Botrychium</i>	as IFV	as IFV
Marattidae				
G. Marattiales				
7. Marattiaceae	<i>Angiopteris</i> (incl. <i>Archangiopteris</i>)	<i>Angiopteris</i> (incl. <i>Archangiopteris</i>)	as IFV	as IFV
	<i>Christensenia</i>			<i>Christensenia</i>
	<i>Marattia</i>	<i>Marattia</i>	as IFV	as IFV
Polypodiidae				
H. Osmundales				
8. Osmundaceae	<i>Osmunda</i>	<i>Osmunda</i>	as IFV	as IFV
I. Hymenophyllales				
9. Hymenophyllaceae				
Trichomanoideae	<i>Abrodictyum</i> <i>Cephalomanes</i> <i>Crepidomanes</i> <i>Didymoglossum</i> <i>Trichomanes</i> <i>Vandenboschia</i>	<i>Cephalomanes</i> <i>Crepidomanes</i> <i>Didymoglossum</i> <i>Trichomanes</i> <i>Vandenboschia</i>	as IFV as IFV as IFV as IFV not recognized	<i>Abrodictyum</i> as IFV as IFV <i>Didymoglossum</i> as IFV as IFV
Hymenophylloideae	<i>Hymenophyllum</i>	<i>Hymenophyllum</i>	as IFV	as IFV
J. Gleicheniales				
10. Dipteridaceae	<i>Cheiropleuria</i>	<i>Cheiropleuria</i> (in Cheiropleuriaceae)	as IFV	<i>Cheiropleuria</i>

	PPG I Lycophytes and Ferns of Vietnam According to PPG 1	Previous Treatments		
		IFV (1999)	CPSV (2001)	Phan (2010)
	<i>Dipteris</i>	<i>Dipteris</i>	as IFV	as IFV
	<i>Dicranopteris</i>	<i>Dicranopteris</i>	as IFV	as IFV
11. Gleicheniaceae	<i>Diplopterygium</i>	<i>Diplopterygium</i>	as IFV	as IFV
	<i>Gleichenia</i>	<i>Gleichenia</i>	as IFV	as IFV
K. Schizaeles				
12. Lygodiaceae	<i>Lygodium</i>	<i>Lygodium</i> (in Schizaeaceae)	as IFV	<i>Lygodium</i>
13. Schizaeaceae	<i>Schizaea</i>	<i>Schizaea</i>	as IFV	as IFV
M. Salvinales				
14. Salviniaceae	<i>Azolla</i>	<i>Azolla</i> (in Azollaceae)	as IFV	<i>Azolla</i>
	<i>Salvinia</i>	<i>Salvinia</i>	as IFV	<i>Salvinia</i>
15. Marsileaceae	<i>Marsilea</i>	<i>Marsilea</i>	as IFV	<i>Marsilea</i>
N. Cyatheales				
16. Plagiogyriaceae	<i>Plagiogyria</i>	<i>Plagiogyria</i>	as IFV	as IFV
17. Cibotiaceae	<i>Cibotium</i>	<i>Cibotium</i> (in Thyrsopteridaeae)	<i>Cibotium</i> (in Dicksoniaceae)	<i>Cibotium</i>
	<i>Alsophila</i>	not included	as IFV	<i>Alsophila</i>
18. Cyatheaceae	<i>Cyathea</i>	<i>Cyathea</i>	<i>Cyathea</i>	<i>Cyathea</i>
	<i>Sphaeropteris</i>	not recognized	not recognized	<i>Sphaeropteris</i>
O. Polypodiales				
Lindsaeineae				
	<i>Lindsaea</i>	<i>Lindsaea</i> (in Dennstaedtiaceae)	as IFV	<i>Lindsaea</i>
19. Lindsaeaceae	<i>Sphenomeris</i>	<i>Sphenomeris</i> (in Dennstaedtiaceae)	as IFV	<i>Sphenomeris</i>
	<i>Tapeinidium</i>	<i>Tapeinidium</i> (in Dennstaedtiaceae)	as IFV	<i>Tapeinidium</i>
Pteridineae				
20. Pteridaceae	<i>Acrostichum</i>	<i>Acrostichum</i>	as IFV	as IFV
Parkerioideae	<i>Ceratopteris</i>	<i>Ceratopteris</i> (in Parkeriaceae)	as IFV	<i>Ceratopteris</i>
Cryptogrammoideae	<i>Coniogramme</i>	<i>Coniogramme</i> (in Adiantaceae)	as IFV	<i>Coniogramme</i>
	<i>Anogramma</i>	not recognized	not recognized	<i>Anogramma</i>
	<i>Onychium</i>	<i>Onychium</i> (in Adiantaceae)	as IFV	<i>Onychium</i>
Pteridoideae	<i>Pityrogramma</i>	<i>Pityrogramma</i> (in Adiantaceae)	as IFV	<i>Pityrogramma</i>
	<i>Pteris</i>	<i>Pteris</i>	as IFV	as IFV
	<i>Syngramma</i>	<i>Syngramma</i> (in Adiantaceae)	as IFV	<i>Syngramma</i>

PPG I	Lycophytes and Ferns of Vietnam According to PPG 1	Previous Treatments		
		IFV (1999)	CPSV (2001)	Phan (2010)
	<i>Taenitis</i>	<i>Taenitis</i> (in Adiantaceae)	as IFV	<i>Taenitis</i>
	<i>Adiantum</i>	<i>Adiantum</i> (in Adiantaceae)	as IFV	<i>Adiantum</i>
Vittarioideae	<i>Antrophyum</i>	<i>Antrophyum</i> (in Vittariaceae)	as IFV	<i>Antrophyum</i>
	<i>Vittaria</i>	<i>Vittaria</i> (in Vittariaceae)	as IFV	<i>Vittaria</i>
	<i>Aleuritopteris</i>	not recognized	not recognized	<i>Aleuritopteris</i>
Cheilanthoideae	<i>Hemionitis</i>	<i>Hemionitis</i> (in Adiantaceae)	as IFV	<i>Hemionitis</i>
	<i>Mildella</i>	<i>Mildella</i> (in Adiantaceae)	as IFV	<i>Mildella</i>
	<i>Notholaena</i>	<i>Notholaena</i> (in Adiantaceae)	as IFV	<i>Notholaena</i>
21. Dennstaedtiaceae	<i>Dennstaedtia</i>	<i>Dennstaedtia</i>	as IFV	as IFV
	<i>Histiopteris</i>	<i>Histiopteris</i>	as IFV	as IFV
	<i>Hypolepis</i>	<i>Hypolepis</i>	as IFV	as IFV
	<i>Microlepia</i>	<i>Microlepia</i>	as IFV	as IFV
	<i>Monachosorum</i>	<i>Monachosorum</i>	as IFV	as IFV
	<i>Pteridium</i>	<i>Pteridium</i>	as IFV	as IFV
Aspleniineae	<i>Acystopteris</i>	not recognized	not recognized	<i>Acystopteris</i> (incl. <i>Cystopteris</i>)
22. Cystopteridaceae	<i>Cystopteris</i>	<i>Cystopteris</i> (in Aspleniaceae)	<i>Cystopteris</i> (in Woodsiaceae)	not recognized
23. Rhachidosoraceae	<i>Rhachidosorus</i>	not recognized	not recognized	<i>Rhachidosorus</i> (in Woodsiaceae)
24. Diplaziopsidaceae	<i>Diplaziopsis</i>	not recognized	<i>Diplaziopsis</i> (in Woodsiaceae)	as CPSV
25. Aspleniaceae	<i>Asplenium</i>	<i>Asplenium</i>	as IFV	as IFV
	<i>Hymenophyllum</i>	not recognized	not recognized	<i>Hymenophyllum</i>
26. Blechnaceae	<i>Stenochlaena</i>	not recognized	<i>Stenochlaena</i>	as CPSV
Stenochlaeoideae	<i>Woodwardi</i>	not recognized	<i>Woodwardi</i>	as CPSV
Woodwardioideae	<i>Blechnum</i>	<i>Blechnum</i>	as IFV	as IFV
Blechnoideae	<i>Brainea</i>	<i>Brainea</i>	as IFV	as IFV
	<i>Athyrium</i>	<i>Athyrium</i> (in Aspleniaceae)	<i>Athyrium</i> (in Woodsiaceae)	as CPSV
27. Athyriaceae	<i>Deparia</i>	<i>Deparia</i> (incl. <i>Lunathyrium</i>)	not recognized	<i>Deparia</i> (in Woodsiaceae)
	<i>Diplazium</i>	<i>Diplazium</i> (in Aspleniaceae)	<i>Diplazium</i> (in Woodsiaceae)	as CPSV
28. Thelypteridaceae	<i>Macrothelypteris</i>	not recognized	<i>Macrothelypteris</i>	as CPSV
Phegopteridoideae	<i>Phegopteris</i>	not recognized	<i>Phegopteris</i>	as CPSV

	PPG I Lycophytes and Ferns of Vietnam According to PPG 1	Previous Treatments		
		IFV (1999)	CPSV (2001)	Phan (2010)
	<i>Pseudophlegopteris</i>	<i>Pseudophlegopteris</i>	as IFV	as IFV
	<i>Ampelopteris</i>	<i>Ampelopteris</i>	as IFV	not recognized
	<i>Christella</i>	<i>Christella</i>	as IFV	not recognized
	<i>Coryphopteris</i>	<i>Coryphopteris</i>	as IFV	not recognized
	<i>Cyclogramma</i>	<i>Cyclogramma</i>	as IFV	not recognized
	<i>Cyclosorus</i>	<i>Cyclosorus</i>	as IFV	<i>Cyclosorus</i> (incl. <i>Ampelopteris</i> , <i>Christella</i> , <i>Cyclogramma</i> , <i>Glaphyropteridopsis</i> , <i>Pneumatopteris</i> , <i>Pronephrium</i> , <i>Pseudocyclosorus</i> , <i>Stegnogramma</i> , <i>Trigonospora</i>)
Thelypteridoideae	<i>Glaphyropteridopsis</i>	not recognized	<i>Glaphyropteridopsis</i>	not recognized
	<i>Metathelypteris</i>	<i>Metathelypteris</i>	as IFV	not recognized
	<i>Parathelypteris</i>	not recognized	<i>Parathelypteris</i>	not recognized
	<i>Pneumatopteris</i>	<i>Pneumatopteris</i>	as IFV	not recognized
	<i>Pronephrium</i>	<i>Pronephrium</i>	as IFV	not recognized
	<i>Pseudocyclosorus</i>	<i>Pseudocyclosorus</i>	as IFV	not recognized
	<i>Stegnogramma</i>	<i>Stegnogramma</i>	as IFV	not recognized
	<i>Thelypteris</i>	<i>Thelypteris</i>	as IFV	<i>Thelypteris</i> (incl. <i>Thelypteris</i> , <i>Metathelypteris</i> , <i>Parathelypteris</i>)
	<i>Trigonospora</i>	<i>Trigonospora</i>	as IFV	not recognized
29. Didymochlaenaceae	<i>Didymochlaena</i> (in Dryopteridaceae)	<i>Didymochlaena</i> (in Dryopteridaceae)	as IFV	as IFV
	<i>Hypodematum</i>	not recognized	<i>Hypodematum</i> (in Woodsiaceae)	<i>Hypodematum</i> (in Dryopteridaceae)
30. Hypodematiaceae	<i>Leucostegia</i> (in Davalliaceae)	<i>Leucostegia</i> (in Davalliaceae)	as IFV	<i>Leucostegia</i> (Dryopteridaceae)
31. Dryopteridaceae				
Polybotryoideae	<i>Polystichopsis</i>	not recognized	<i>Polystichopsis</i>	not recognized
	<i>Bolbitis</i> (in Lomariopsidaeae)	<i>Bolbitis</i> (in Lomariopsidaeae)	as IFV	<i>Bolbitis</i>
	<i>Elaphoglossum</i> (in Lomariopsidaeae)	<i>Elaphoglossum</i> (in Lomariopsidaeae)	as IFV	<i>Elaphoglossum</i>
Elaphoglosoideae	<i>Lomagramma</i>	not recognized	<i>Lomagramma</i> (in Lomariopsidaeae)	<i>Lomagramma</i>
	<i>Pleocnemia</i>	not recognized	<i>Pleocnemia</i>	<i>Pleocnemia</i>
	<i>Rumohra</i> (in Davalliaceae)	<i>Rumohra</i> (in Davalliaceae)	as IFV	<i>Rumohra</i>
	<i>Teratophyllum</i>	<i>Teratophyllum</i>	as IFV	<i>Teratophyllum</i>

PPG I	Lycophytes and Ferns of Vietnam According to PPG 1	Previous Treatments		
		IFV (1999)	CPSV (2001)	Phan (2010)
(in Lomariopsidaeae)				
Dryopteridoideae	<i>Arachniodes</i>	<i>Arachniodes</i>	as IFV	<i>Arachniodes</i> (incl. <i>Polystichopsis</i>)
	<i>Ctenitis</i>	<i>Ctenitis</i>	as IFV	as IFV
	<i>Cyrtomium</i>	<i>Cyrtomium</i>	as IFV	as IFV
	not recognized	not recognized	not recognized	<i>Acrophorus</i>
	not recognized	not recognized	not recognized	<i>Acrorumohra</i>
	<i>Dryopteris</i> (incl. <i>Acrophorus</i> , <i>Acrorumohra</i> , <i>Dryopsis</i>)	<i>Dryopteris</i>	<i>Dryopteris</i>	<i>Dryopteris</i>
32. Nephrolepidaceae	<i>Polystichum</i>	<i>Polystichum</i>	as IFV	as IFV
	<i>Nephrolepis</i>	<i>Nephrolepis</i> (in Davalliaceae)	<i>Nephrolepis</i> (in Oleandraceae)	<i>Nephrolepis</i> (in Lomariopsidaceae)
33. Lomariopsidaceae	<i>Cyclopeltis</i>	<i>Cyclopeltis</i> (in Drypteridaceae)	as IFV	<i>Cyclopeltis</i>
	<i>Lomariopsis</i>	<i>Lomariopsis</i>	as IFV	as IFV
	<i>Arthropteris</i>	<i>Arthropteris</i> (in Davalliaceae)	as IFV	<i>Arthropteris</i>
34. Tectariaceae	<i>Pteridrys</i>	<i>Pteridrys</i> (in Drypteridaceae)	as IFV	<i>Pteridrys</i>
	<i>Tectaria</i>	<i>Tectaria</i> (in Drypteridaceae)	as IFV	<i>Tectaria</i>
35. Oleandraceae	<i>Oleandra</i>	<i>Oleandra</i> (in Davalliaceae)	<i>Oleandra</i>	as CPSV
36. Davalliaceae	<i>Davallia</i>	(incl. <i>Araiostegia</i> , <i>Da-</i> <i>valloides</i>)	as IFV	as IFV
37. Polypodiaceae				
Loxogrammoideae	<i>Loxogramme</i>	<i>Loxogramme</i> (in Grammitidaceae)	<i>Loxogramme</i>	as CPSV
Platyceroideae	<i>Platycerium</i>	<i>Platycerium</i>	as IFV	as IFV
	<i>Pyrrosia</i>	<i>Pyrrosia</i>	as IFV	as IFV
	<i>Aglaomorpha</i> (incl. <i>Photinopteris</i>)	<i>Aglaomorpha</i>	<i>Aglaomorpha</i>	as CPSV
Drynarioideae	<i>Arthromeris</i>	<i>Arthromeris</i>	as IFV	as IFV
	<i>Gymnogrammitis</i>	<i>Gymnogrammitis</i> (in Davalliaceae)	as IFV	<i>Gymnogrammitis</i>
	<i>Selliguea</i>	<i>Selliguea</i>	as IFV	as IFV
	<i>Goniophlebium</i>	<i>Goniophlebium</i>	as IFV	as IFV
	<i>Lecanopteris</i>	not recognized	<i>Lecanopteris</i>	<i>Lecanopteris</i>
	not recognized	not recognized	not recognized	<i>Caobangia</i>
Microsoroideae	<i>Lemmaphyllum</i> (incl. <i>Caobangia</i>)	<i>Lemmaphyllum</i>	as IFV	as IFV
	<i>Lepisorus</i>	<i>Lepisorus</i>	as IFV	as IFV
	not recognized	not recognized	not recognized	<i>Kontumia</i>

	PPG I	Lycophytes and Ferns of Vietnam According to PPG 1	Previous Treatments		
			IFV (1999)	CPSV (2001)	Phan (2010)
		<i>Leptochilus</i> (incl. <i>Kontumia</i>)	<i>Leptochilus</i>	as IFV	as IFV
		<i>Microsorum</i>	<i>Microsorum</i>	as IFV	as IFV
		<i>Neocheiropteris</i>	<i>Neocheiropteris</i>	as IFV	as IFV
		<i>Paragrimma</i>	<i>Paragrimma</i>	as IFV	as IFV
Polypodioideae		<i>Polypodium</i>	<i>Polypodium</i>	as IFV	as IFV
		<i>Acrosorus</i>	<i>Acrosorus</i> (in Grammitidaceae)	as IFV	<i>Acrosorus</i>
		<i>Calymmodon</i>	<i>Calymmodon</i> (in Grammitidaceae)	as IFV	<i>Calymmodon</i>
		<i>Cochlidium</i>	<i>Cochlidium</i> (incl. <i>Xiphopteris</i>)	as IFV	<i>Cochlidium</i>
		<i>Grammitis</i>	<i>Grammitis</i> (in Grammitidaceae)	as IFV	<i>Grammitis</i>
		<i>Prosaptia</i>	<i>Prosaptia</i> (in Grammitidaceae)	as IFV	<i>Prosaptia</i>
Grammitidoideae		<i>Scleroglossum</i>	<i>Scleroglossum</i> (in Grammitidaceae)	as IFV	<i>Scleroglossum</i>

Table S5. Classification of gymnosperms of Vietnam according to the GPG classification system.

PGP	Gymnosperms of Vietnam According to "GPG"	IFV (1999)	CPSV (2001)	Nguyen and Thomas (2005)
SUBCLASS I. Cycadidae Pax				
Order A. Cycadales Pers. ex Bercht. & J.Presl				
1. Cycadaceae	<i>Cycas</i>	as GPG	as GPG	not recognized
SUBCLASS II. Ginkgoidae Engl.				
Order B. Ginkgoales Gorozh.				
2. Ginkgoaceae Engl.	<i>Ginkgo</i>	as GPG	not recognized	not recognized
SUBCLASS III. Gnetales Pax				
Order C. Gnetales Blume				
3. Gnetaceae Blume	<i>Gnetum</i>	as GPG	as GPG	not recognized
SUBCLASS IV. Pinidae Cronquist				
Order D. Pinales Gorozh				
4. Pinaceae Spreng. ex F.Rudolphi,	<i>Abies</i>	as GPG	as GPG	as GPG
	<i>Keteleeria</i>	as GPG	as GPG	as GPG
	<i>Pinus</i>	as GPG	as GPG	as GPG
	<i>Pseudotsuga</i>	not recognized	not recognized	as GPG
5. Araucariaceae Henkel & W.Hochst.	<i>Tsuga</i>	as GPG	as GPG	as GPG
	<i>Araucaria</i>	not recognized	as GPG	not recognized
	<i>Dacrycarpus</i>	not recognized	as GPG	as CPSV
	<i>Dacrydium</i>	as GPG	as GPG	as GPG
6. Podocarpaceae Endl.	<i>Nageia</i>	as GPG	as GPG	as GPG
	not recognized	<i>Decussocarpus</i>	not recognized	not recognized
	<i>Podocarpus</i>	as GPG	(incl. <i>Decussocarpus</i>)	as GPG
Order F. Cupressales Link				
7. Cupressaceae Gray	<i>Cunninghamia</i>	<i>Cunninghamia</i> (in Taxodiaceae)	as IFV	as GPG
	<i>Cryptomeria</i>	<i>Cryptomeria</i> (in Taxodiaceae)	not recognized	not recognized
	<i>Glyptostrobus</i>	<i>Glyptostrobus</i> (in Taxodiaceae)	as IFV	as GPG
	<i>Cupressus</i> (incl. <i>Xanthocyparis</i>)	as GPG	as GPG	as GPG
8. Taxaceae Gray	<i>Fokienia</i>	as GPG	as GPG	as GPG
	<i>Calocedrus</i>	as GPG	as GPG	as GPG
	<i>Taiwania</i>	not recognized	not recognized	as GPG
	<i>Taxus</i>	<i>Taxus</i>	as IFV	as IFV
9. Taxaceae Gray	<i>Cephalotaxus</i>	<i>Cephalotaxus</i> (in Cephalotaxaceae)	as IFV	as IFV

<i>Amentotaxus</i>	<i>Amentotaxus</i> (in Amentotaxaceae)	as GPG	as GPG
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Table S6. Comparison of angiosperm families of Vietnam following IFV, CPSV, and APG IV. (Families in **boldface** in IFV and CPSV have the same delimitation; Families in **boldface** in APG IV have the same delimitation as IFV and CPSV).

APG IV families	IFV (1999-2003)	CPSV (2001-2005)
Acanthaceae Juss.	Acanthaceae	
	Verbenaceae: <i>Avicennia</i>	
Achariaceae Harms	Flacourtiaceae: <i>Hydnocarpus</i>	Flacourtiaceae: <i>Gynocardia, Hydnocarpus</i>
Acoraceae Martinov	Araceae: <i>Acorus</i>	
Actinidiaceae Gilg & Werderm.	Actinidiaceae	
Adoxaceae E. Mey. (-Viburnacee Raf.)	Caprifoliaceae: <i>Sambucus, Viburnum</i>	
Aizoaceae Martinov	Aizoaceae not recognized	Tetragoniaceae
Akaniaceae Stapf	Bretschneideraceae	
Alismataceae Vent.	Alismataceae	
	Butomaceae: <i>Tenagogcharis, Limnocharis</i>	Limonocharitaceae: <i>Tenagogcharis, Limnocharis</i>
Altingiaceae Lindl.	Altingiaceae	
Amaranthaceae Juss.	Amaranthaceae	
	Chenopodiaceae	
Amaryllidaceae J. St.-Hil.	Amaryllidaceae: <i>Agapanthus, Crinum, Lycoris, Narcissus, Pancratium, Zephyranthes</i>	Amaryllidaceae: <i>Crinum, Lycoris, Narcissus, Pancratium, Zephyranthes</i>
	Liliaceae: <i>Allium</i>	Alliaceae
Anacardiaceae R. Br.	Anacardiaceae	
Ancistrocladaceae Planch. ex Walp.	Ancistrocladaceae	
Anisophylleaceae Ridl.	Anisophylleaceae	
Annonaceae Juss.	Annonaceae	
Apiaceae Lindl.	Apiaceae: excl. <i>Hydrocotyle</i>	
Apocynaceae Juss.	Apocynaceae Asclepiadaceae	
Aponogetonaceae Planch.	Aponogetonaceae	
Aquifoliaceae Bercht. & J. Presl	Aquifoliaceae	
Araceae Juss.	Araceae: excl. <i>Acorus</i> not recognized	Lemnaceae
Araliaceae Juss.	Araliaceae	
	Apiaceae: <i>Hydrocotyle</i>	
Arecaceae Bercht. & J. Presl	Arecaceae	
Aristolochiaceae Juss.	Aristolochiaceae	
	Agavaceae: <i>Agave</i>	
	Liliaceae: <i>Asparagus</i>	Asparagaceae
Asparagaceae Juss.	Liliaceae: <i>Aspidistra, Disporopsis, Disporum, Polygonatum, Tupistra</i>	Convallariaceae
	Agavaceae: <i>Dracaena, Sansevieria</i>	Dracaenaceae
	Agavaceae: <i>Urginea</i>	Hyacinthaceae

	Agavaceae: <i>Nolina</i>	Nolinaceae: <i>Nolina</i>
	Liliaceae: <i>Aloe</i>	Asphodelaceae
Asphodelaceae Juss.	Liliaceae: <i>Dianella</i>	Phormiaceae
	Liliaceae: <i>Hemerocallis</i>	Hemerocallidaceae
Asteliaceae Dumort.	not recognized	Asteliaceae
Asteraceae Bercht. & J. Presl	Asteraceae	
Balanophoraceae Rich.	Balanophoraceae	
Balsaminaceae A. Rich.	Balsaminaceae	
Basellaceae Raf.	Basellaceae	
Begoniaceae C. Agardh	Begoniaceae	
Berberidaceae Juss.	Berberidaceae	
Betulaceae Gray	Betulaceae	
Bignoniaceae Juss.	Bignoniaceae	
Bixaceae Kunth	Bixaceae	
	Cochlospermaceae	
Bonnetiaceae L. Beauvis. ex Nakai	not recognized	Bonnetiaceae
Boraginaceae Juss.	Boraginaceae	
Brassicaceae Burnett (=Cruciferae Juss.)	Brassicaceae	
Bromeliaceae Juss.	not recognized	Bromeliaceae
Burmanniaceae Blume	Burmanniaceae	
Burseraceae Kunth	Burseraceae	Annacardiaceae: <i>Bursera, Canarium, Dacryodes, Garuga, Protium</i>
Buxaceae Dumort.	Buxaceae	
Cabombaceae Rich ex A. Rich.	Cabombaceae	
Cactaceae Juss.	Cactaceae	
Calophyllaceae J. Agardh	Clusiaceae: <i>Calophyllum, Mesua</i>	
Calycanthaceae Lindl.	not recognized	Calycanthaceae
Campanulaceae Juss.	Campanulaceae: excl. <i>Pentaphragma</i>	
	Lobeliaceae	
Cannabaceae Marti-nov	Cannabaceae	
Cannaceae Juss.	Cannaceae	
Capparaceae Juss.	Capparaceae: excl. <i>Cleome</i>	
	Caprifoliaceae: <i>Lonicera</i>	Caprifoliaceae: <i>Abelia, Lonicera</i>
Caprifoliaceae Juss.	Dipsacaceae	
	Valerianaceae	
Cardiopteridaceae Blume	Cardiopteridaceae	
	Iacacinaceae: <i>Gonocaryum</i>	
Caricaceae Dumort.	Caricaceae	
	Rubiaceae: <i>Carlemannia</i>	

Carlemanniaceae		
Airy Shaw	Caprifoliaceae: <i>Silvianthus</i>	
Caryophyllaceae	Caryophyllaceae	
Juss.		
Casuarinaceae R. Br.	Casuarinaceae	
Celastraceae R. Br.	Celastraceae	
	not recognized	Siphonodontataceae
Ceratophyllaceae	Ceratophyllaceae	
Gray		
Chloranthaceae R. Br. ex Sims	Chloranthaceae	
Chrysobalanaceae R. Br.	Rosaceae: <i>Chrysobalanus, Parinari</i>	Chrysobalanaceae
Cleomaceae Bercht. & J. Presl	Capparaceae: <i>Cleome</i>	
Clethraceae Klotzsch	Clethraceae	
Clusiaceae Lindl.	Clusiaceae: <i>Garcinia</i>	
Colchicaceae DC.	Liliaceae: <i>Gloriosa, Iphigenia</i>	
	Liliaceae: <i>Disporum</i>	
Combretaceae R. Br.	Combretaceae	
Commelinaceae Mirb.	Commelinaceae	
Connaraceae R. Br.	Connaraceae	
Convolvulaceae Juss.	Convolvulaceae	
	not recognized	Cuscutaceae
Cornaceae Bercht. & J. Presl	Cornaceae: <i>Cornus</i>	Cornaceae
	Alangiaceae	
Costaceae Nakai	Zingiberaceae: <i>Costus</i>	Costaceae: <i>Costus</i>
Crassulaceae J.St.- Hil.	Crassulaceae	
Crypteroniaceae A. DC.	Crypteroniaceae	
Cucurbitaceae Juss.	Cucurbitaceae	
Cymodoceaceae Vines	Zannichelliaceae	Cymodoceaceae
Cyperaceae Juss.	Cyperaceae	
Daphniphyllaceae Mull. Arg.	Daphniphyllaceae	
Datiscaceae Dumort.	Datiscaceae	
Diapensiaceae Lindl.	not recognized	Diapensiaceae
Dichapetalaceae Baill.	Dichapetalaceae	
Dilleniaceae Salisb.	Dilleniaceae	
Dioscoreaceae R. Br.	Dioscoreaceae	
	Taccaceae	
Dipentodontaceae Merr.	not recognized	Dipentodontaceae
Dipterocarpaceae Blume	Dipterocarpaceae	
Droseraceae Salisb.	Droseraceae	

Ebenaceae Gurke	Ebenaceae	
Elaeagnaceae Juss.	Elaeagnaceae	
Elaeocarpaceae Juss.	Elaeocarpaceae	
Elatinaceae Dumort.	Elatinaceae	
	Ericaceae	
Ericaceae Juss.	Epacridaceae	
	not recognized	Pyrolaceae
Eriocaulaceae Marti-nov	Eriocaulaceae	
Erythroxylaceae Kunth	Erythroxylaceae	
Escallonioaceae R. Br. ex Dumort.	Saxifragaceae: <i>Polyosma</i>	Escallonioaceae: <i>Polyosma</i>
Eucommiaceae Engl.	Eucommiaceae	
	Euphorbiaceae: <i>Acalypha</i> , <i>Alchornea</i> , <i>Aleu-rites</i> , <i>Baliospermum</i> , <i>Blachia</i> , <i>Chaetocarpus</i> , <i>Cladogynos</i> , <i>Claoxylon</i> , <i>Cleidiocarpon</i> , <i>Cleidion</i> , <i>Cnesmone</i> , <i>Codiaeum</i> , <i>Croton</i> , <i>Dalechampia</i> , <i>Duetzianthus</i> , <i>Dimorphocalyx</i> , <i>Endospermum</i> , <i>Epiperinus</i> , <i>Erismanthus</i> , <i>Euphorbia</i> , <i>Excoecaria</i> , <i>Hevea</i> , <i>Homonoia</i> , <i>Hura</i> , <i>Jatropha</i> , <i>Lasiococca</i> , <i>Macaranga</i> , <i>Mallotus</i> , <i>Manihot</i> , <i>Melanolepis</i> , <i>Ostodes</i> , <i>Pachystylidium</i> , <i>Pedilanthus</i> , <i>Ricinum</i> , <i>Pedilanthus</i> , <i>Ricinus</i> , <i>Strophioblachia</i> , <i>Sumbaviopsis</i> , <i>Suregada</i> , <i>Trevia</i> , <i>Trigonoste-mon</i> , <i>Vernicia</i> .	Euphorbiaceae: <i>Acalypha</i> , <i>Alchornea</i> , <i>Aleurites</i> , <i>Baliospermum</i> , <i>Blachia</i> , <i>Chaetocarpus</i> , <i>Cladogynos</i> , <i>Claoxylon</i> , <i>Cleidiocarpon</i> , <i>Cleidion</i> , <i>Cnesmone</i> , <i>Codiaeum</i> , <i>Croton</i> , <i>Dalechampia</i> , <i>Duetzianthus</i> , <i>Dimorphocalyx</i> , <i>Endospermum</i> , <i>Epiperinus</i> , <i>Erismanthus</i> , <i>Euphorbia</i> , <i>Excoecaria</i> , <i>Hevea</i> , <i>Homonoia</i> , <i>Hura</i> , <i>Jatropha</i> , <i>Koilodepas</i> , <i>Lasiococca</i> , <i>Macaranga</i> , <i>Mallotus</i> , <i>Manihot</i> , <i>Melanolepis</i> , <i>Mercurialis</i> , <i>Ostodes</i> , <i>Pachystylidium</i> , <i>Pedilanthus</i> , <i>Ricinum</i> , <i>Strophioblachia</i> , <i>Sumbaviopsis</i> , <i>Suregada</i> , <i>Trevia</i> , <i>Trigonostemon</i> , <i>Vernicia</i> .
	Ceasalpiniaceae	
Fabaceae Lindl.	Fabaceae	
	Ceasalpiniaceae	
Fagaceae Dumort.	Fagaceae	
Flagellariaceae Du-mort.	Flagellariaceae	
Garryaceae Lindl.	Cornaceae: <i>Aucuba</i>	Aucubaceae
Gentianaceae Juss.	Gentianaceae	
	Potaliaceae	
Geraniaceae Juss.	Geraniaceae	
Gesneriaceae Rich. & Juss.	Gesneriaceae	
Gisekiaceae Nakai	Aizoaceae: <i>Gisekia</i>	Molluginaceae: <i>Gisekia</i>
Goodeniaceae R. Br. ex Rich.	Goodeniaceae	
Haloragaceae R. Br.	Haloragaceae	
Hamamelidaceae R. Br.	Hamamelidaceae	
Hanguanaceae Airy Shaw	Hanguanaceae	
Heliconiaceae Vines	Heliconiaceae	
Helwingiaceae Decne.	Cornaceae: <i>Helwingia</i>	Helwingiaceae

Hernandiaceae	Hernandiaceae
Blume	
Hydrangeaceae Du-mort.	Hydrangeaceae
Hydrocharitaceae Juss.	Hydrocharitaceae
Najadaceae	
Hydroleaceae R. Br.	Hydroleaceae
Hypericaceae Juss.	Clusiaceae: <i>Cratoxylum, Hypericum</i>
Hypoxidaceae R. Br.	Amaryllidaceae: <i>Curculigo, Hypoxis</i>
Icacinaceae Miers	Icacinaceae: excl. <i>Gomphandra, Gonocaryum</i>
Iridaceae Juss.	Iridaceae
Iteaceae J. Agardh	Saxifragaceae: <i>Itea</i>
Ixonanthaceae Planch. ex Miq.	Ixonanthaceae
Juglandaceae DC. Ex Perleb	Juglandaceae
Rhoipteleaceae	
Juncaceae Juss.	Juncaceae
Lamiaceae	
Lamiaceae Martinov	Verbenaceae: <i>Callicarpa, Caryopteris, Clerodendron, Congea, Garrettia, Gmelina, Hymenopyramis, Karomia, Prema, Schnabelia, Sphenodesme, Tectona, Teijsmanniodendron, Tsoongia, Vitex</i>
Lardizabalaceae R. Br.	Lardizabalaceae
Sargentodoxaceae	
Lauraceae Juss.	Lauraceae
Lecythidaceae A. Rich.	Lecythidaceae
Lentibulariaceae Rich.	Lentibulariaceae
Liliaceae Juss.	Liliaceae: <i>Lilium</i>
Liliaceae s.s.	
Linaceae DC. ex Perleb.	Linaceae
Sabiaceae: <i>Hugonia, Indoroucheria</i>	Hugoniaceae
Linderniaceae Borsch et al.	Scrophulariaceae: <i>Legazpia, Linderna, Picaria, Pierranthus, Torenia</i>
Loganiaceae R. Br. ex Mart.	Loganiaceae: <i>Mitrasacme, Mitreola, Strychnos</i>
Loranthaceae Juss.	Loranthaceae
Saxifragaceae: <i>Pilosigma</i>	
Lowiaceae Ridl.	Lowiaceae
Lythraceae	
Punicaceae	
Lythraceae J. St.-Hil.	Sonneratiaceae
	Trapaceae
Magnoliaceae Juss.	Magnoliaceae
Malpighiaceae Juss.	Malpighiaceae
Bombacaceae	
Malvaceae	
Malvaceae Juss.	Sterculiaceae
	Tiliaceae

Marantaceae R. Br.	Marantaceae	
Martyniaceae Horan.	Martyniaceae	
Mazaceae Reveal	Scrophulariaceae: <i>Mazus</i>	
Melanthiaceae Batsch ex Borkh.	Liliaceae: <i>Paris</i>	Trilliaceae
Melastomataceae Juss.	Melastomataceae	
Meliaceae Juss.	Meliaceae	
Menispermaceae Juss.	Menispermaceae	
Menyanthaceae Du- mort.	Menyanthaceae	
Mitrastemonaceae Makino	Rafflesiaceae: <i>Mitrastemon</i>	
Molluginaceae Bartl.	Molluginaceae: <i>Glinus, Mollugo</i>	
Monimiaceae Juss.	Monimiaceae	
Moraceae Gaudich.	Moraceae	
Moringaceae Marti- nov	Moringaceae	
Musaceae Juss.	Musaceae	
Myricaceae Rich. ex Kunth	Myricaceae	
Myristicaceae R. Br.	Myristicaceae	
Myrtaceae Juss.	Myrtaceae	
Nelumbonaceae A. Rich.	Nelumbonaceae	
Nepenthaceae Du- mort	Nepenthaceae	
Nyctaginaceae Juss.	Nyctaginaceae	
Nymphaeaceae Salisb.	Nymphaeaceae Barclayaceae	
Nyssaceae Juss. ex Dumort.	Cornaceae: <i>Mastixia</i> Nyssaceae not recognized	Mastixiaceae Davidiaceae
Ochnaceae DC.	Ochnaceae	
Olacaceae R. Br.	Olacaceae	
Oleaceae Hoffmanns. & Link	Oleaceae: <i>Erythropalum</i>	Erythropalaceae
Opiliaceae Veleton	Opiliaceae	
Orchidaceae Juss.	Orchidaceae	
Orobanchaceae Vent.	Orobanchaceae	
	Scrophulariaceae: <i>Alectra, Brandisia, Cen- tralthera, Lindenbergia, Pedicularis, Rehman- nia, Sopubia, Wightia</i>	Scrophulariaceae: <i>Alectra, Brandisia, Buchnera, Cen- tralthera, Lindenbergia, Pedicularis, Rehmannia, Sopubia, Striga, Wightia</i>
Oxalidaceae R. Br.	Oxalidaceae	
Paeoniaceae Raf.	Paeoniaceae	
Pandanaceae R. Br.,	Pandanaceae	
Papaveraceae Juss.	Papaveraceae Fumariaceae	

Passifloraceae Juss.	Passifloraceae	
ex Roussel	Turneraceae	
Paulowniaceae Nakai	Scrophulariaceae: Paulownia	
Pedaliaceae R. Br.	Pedaliaceae	
Pentaphragmataceae J. Agardh	Campanulaceae: Pentaphragma	
Pentaphylacaceae Engl.	Pentaphylacaceae Theaceae: <i>Adinandra, Anneslea, Eurya,</i> <i>Ternstroemia</i>	
Penthoraceae Rydb. ex Britton	Pittosporaceae: <i>Penthorum</i>	Penthoraceae
Petrosaviaceae Hutch.	Liliaceae: <i>Petrosavia</i>	Melanthiaceae: <i>Petrosavia</i>
Philydraceae Link	Philydraceae	
Phrymaceae Schauer	Scrophulariaceae: <i>Mimulus, Mazus, Micro-</i> <i>carpaea</i>	Scrophulariaceae: <i>Mimulus, Microcarpaea, Glossotigma</i>
Phyllanthaceae Martino	Euphorbiaceae: <i>Aporosa, Actephila, Antidesma, Aporosa, Baccaurea, Bischofia, Breynia, Bridelia, Cleistanthus, Flueggea, Glocidion, Hymenocardia, Leptopus, Margaritaria, Phyllanthus, Sauvagesia</i>	
Phytolaccaceae R. Br.	Phytolaccaceae	
Piperaceae Giseke	Piperaceae	Piperaceae: excl. <i>Circaeocarpus</i>
Pittosporaceae R. Br.	Pittosporaceae: excl. <i>Penthorum</i>	Pittosporaceae
	Plantaginaceae	
Plantaginaceae Juss.	Scrophulariaceae: <i>Angelonia</i>	Scrophulariaceae: <i>Adenosma, Angelonia, Antirrhinum, Bacopa, Digitalis, Limnophila, Russelia, Scoparia, Stemodia, Veronica</i>
	Callitrichiaceae	
Platanaceae T. Lestib.	Platanaceae	
Plumbaginaceae Juss.	Plumbaginaceae	
Poaceae Barnhart	Poaceae	
Podostemaceae Rich. ex Kunth	Podostemaceae	
Polemoniaceae Juss.	Polemoniaceae	
Polygalaceae Hoffmanns. & Link	Polygalaceae	
Polygonaceae Juss.	Polygonaceae	
Pontederidaceae Kunth.	Pontederidaceae	
Portulacaceae Juss.	Portulacaceae: excl. <i>Talinum</i>	
Potamogetonaceae Bercht. & J. Presl.	Potamogetonaceae	
Primulaceae Batsch ex Borkh.	Myrsinaceae	
Proteaceae Juss.	Proteaceae	
Putranjivaceae Meisn.	Euphorbiaceae: <i>Drypetes</i>	
Rafflesiaceae Dumort.	Rafflesiaceae: <i>Sapria</i>	

Ranunculaceae Juss.	Ranunculaceae	
Resedaceae Martinov	Capparaceae: <i>Neothorelia, Stixis, Tirania</i>	Capparaceae: <i>Stixis, Tirania</i>
Restionaceae R. Br.	Restionaceae	
	Centrolepidaceae	
Rhamnaceae Juss.	Rhamnaceae	
Rhizophoraceae Pers.	Rhizophoraceae	
Rosaceae Juss.	Rosaceae: excl. <i>Chrysobalanus, Parinari</i>	Rosaceae
Rubiaceae Juss.	Rubiaceae: excl. <i>Carlemannia</i>	
Ruppiaceae Horan.	Ruppiaceae	
Rutaceae Juss.	Rutaceae	
	Simaroubaceae: Harrisonia	
Sabiaceae Blume	Sabiaceae: excl. <i>Hugonia, Indoroucheria</i>	Sabiaceae
Salicaceae Mirb.	Flacourtiaceae: excl. <i>Hydnocarpus</i>	Flacourtiaceae: excl. <i>Gynocardia, Hydnocarpus</i>
	Salicaceae	
Salvadoraceae Lindl	Salvadoraceae	
Santalaceae R. Br.	Santalaceae	
	Loranthaceae: <i>Ginalloa, Korthalsella, Viscum</i>	Viscaceae
	Aceraceae	
Sapindaceae Juss.	Hippocastanaceae	
	Sapindaceae	
Sapotaceae Juss.	Sapotaceae	
Saururaceae Rich. ex T. Lestib.	Saururaceae	
Saxifragaceae Juss.	Saxifragaceae: excl. <i>Pilostigma</i>	Saxifragaceae
Schisandraceae Blume	Schisandraceae	
	Illiciaceae	
Schoepfiaeae Blume	Olacaceae: <i>Schoepfia</i>	Schoepfiaeae
Scrophulariaceae Juss.	Buddlejaceae	
	Myoporaceae	
	Scrophulariaceae: Scrophularia	
Simaroubaceae DC.	Simaroubaceae: excl. Irvingia	
Smilacaceae Vent.	Smilacaceae	
Solanaceae Juss.	Solanaceae	
Sphenocleaceae T. Baskerv.	Sphenocleaceae	
Stachyuraceae J. Agardh	Stachyuraceae	
Staphyleaceae Mart.- nov.	Staphyleaceae: excl. Tapiscia	
Stemonaceae Caruel	Stemonaceae	
Stemonuraceae Kare-hed	Icacinaceae: Gomphandra	
Strelitziaceae Hutch.	Strelitziaceae	
Styliadiaceae R. Br.	Styliadiaceae	
Styracaceae DC. & Spreng.	Styracaceae	
Surianaceae Arn.	not recognized	Simaroubaceae: <i>Suriana</i>
Symplocaceae Desf.	Symplocaceae	
Talinaceae Doweld	Portulacaceae: Talinum	

Tamaricaceae Link	Tamaricaceae	
Tapisciaceae Takht.	Staphyleaceae : <i>Tapiscia</i>	
Theaceae Mirb.	Theaceae: excl. <i>Adinandra</i> , <i>Anneslea</i> , <i>Eurya</i> , <i>Temstroemia</i>	Theaceae: excl. <i>Adinandra</i> , <i>Anneslea</i> , <i>Eurya</i>
Thymelaeaceae Juss.	Thymelaeaceae	
Torricelliaceae Hu	Cornaceae: <i>Toricellia</i>	Toricelliaceae
Triuridaceae Gard- ner	Triuridaceae	
Tropaeolaceae Juss. ex DC.	Tropaeolaceae	
Typhaceae Juss.	Sparganiaceae Typhaceae	
Ulmaceae Mirb.	Ulmaceae : <i>Ulmus</i>	
Urticaceae Juss.	Urticaceae	
Verbenaceae J. St. Hil.	Verbenaceae : <i>Duranta</i> , <i>Lantana</i> , <i>Phyla</i> , <i>Stachtarpheta</i> , <i>Verbena</i>	
Violaceae Batsch	Violaceae	
Vitaceae Juss.	Vitaceae Leeaceae	
Xyridaceae C. Agardh	Xyridaceae	
Costaceae Nakai	Zingiberaceae: <i>Costus</i>	Costaceae: <i>Costus</i>
Zingiberaceae Marti- nov	Zingiberaceae: excl. <i>Costus</i>	Zingiberaceae
Zosteraceae Dumort.	not recognized	Zosteraceae
Zygophyllaceae R. Br.	Zygophyllaceae	

Table S7. Classification of angiosperm families in Vietnam according to the APG IV classifications. (Families in **boldface** in IFV and CPSV have the same delimitation; Families in **boldface** in APG IV have the same delimitation as IFV and CPSV).

APG IV families	IFV (1999-2003)	CPSV (2001-2005)
BASAL ANGIOSPERMS		
Nymphaeales Salisb. ex Bercht. & J. Presl		
1 [3]. Cabombaceae Rich ex A. Rich.	as APG IV	as APG IV
2 [4]. Nymphaeaceae Salisb.	Nymphaeaceae	as IFV
	Barclayaceae	as IFV
Austrobaileyales Takht. ex Reveal		
3 [7]. Schisandraceae Blume	Schisandraceae	as IFV
	Illiciaceae	as IFV
MAGNOLIIDS		
Piperales Bercht. & J. Presl		
4 [10]. Saururaceae Rich. ex T. Lestib.	as APG IV	as APG IV
5 [12]. Piperaceae Giseke	Piperaceae	Piperaceae: excl. <i>Circaeocarpus</i>
6 [12]. Aristolochiaceae Juss.	as APG IV	as APG IV
Magnoliales Juss. ex Bercht. & J. Presl		
7 [113]. Myristicaceae R. Br.	as APG IV	as APG IV
8 [14]. Magnoliaceae Juss.	as APG IV	as APG IV
9 [18]. Annonaceae Juss.	as APG IV	as APG IV
Laurales Juss. ex Bercht. & J. Presl		
10 [19]. Calycanthaceae Lindl.	not recognized	Calycanthaceae
11 [23]. Hernandiaceae Blume	as APG IV	as APG IV
12 [24]. Monimiaceae Juss.	as APG IV	as APG IV
13 [25]. Lauraceae Juss.	as APG IV	as APG IV
INDEPENDENT LINEAGE: UNPLACED TO MORE INCLUSIVE CLADE		
Chloranthales Mart.		
14 [26]. Chloranthaceae R. Br. ex Sims	as APG IV	as APG IV
MONOCOTS		
Acorales Mart.		
15 [27]. Acoraceae Martinov	Araceae: Acorus	as APG IV
Alismatales R. Br. ex Bercht. & J. Presl		
16 [28]. Araceae Juss.	Araceae: excl. Acorus	as APG IV
	Alismataceae	as IFV
17 [30]. Alismataceae Vent.	Butomaceae: Tenagocharis, Limnocharis	
	Hydrocharitaceae	as IFV
18 [32]. Hydrocharitaceae Juss.	Najadaceae	as IFV
		as IFV
19 [34]. Aponogetonaceae Planch.	as APG IV	as APG IV
20 [37]. Zosteraceae Dumort.	not recognized	as APG IV
21 [38]. Potamogetonaceae Bercht. & J. Presl.	as APG IV	as APG IV
22 [40]. Ruppiaceae Horan.	as APG IV	as APG IV
23 [41]. Cymodoceaceae Vines	Zannichelliaceae	Cymodoceaceae
Petrosaviales Hutch.		
24 [42]. Petrosaviaceae Hutch.	Liliaceae: <i>Petrosavia</i>	Melanthiaceae: <i>Petrosavia</i>
Dioscoreales Mart.		
25 [44]. Burmanniaceae Blume	as APG IV	as APG IV
26 [45]. Dioscoreaceae R. Br.	Dioscoreaceae	as APG IV

	Taccaceae	as APG IV
Pandanales R. Br. ex Bercht. & J. Presl		
27 [46]. Triuridaceae Gardner	as APG IV	as APG IV
28 [48]. Stemonaceae Caruel	as APG IV	as APG IV
29 [50]. Pandanaceae R. Br.	as APG IV	as APG IV
Liliales Perleb		
30 [53]. Melanthiaceae Batsch ex Borkh.	Liliaceae: <i>Paris</i>	Trilliaceae
31 [56]. Colchicaceae DC.	Liliaceae: <i>Gloriosa, Iphi-</i> <i>genia</i>	Melanthiaceae: <i>Gloriosa, Iphigenia</i>
32 [59]. Smilacaceae Vent.	Liliaceae: <i>Disporum</i>	Convallariaceae: <i>Disporum</i>
34 [60]. Liliaceae Juss.	Liliaceae: <i>Lilium</i>	Liliaceae
Asparagales Link		
35 [61]. Orchidaceae Juss.	as APG IV	as APG IV
36 [64]. Asteliaceae Dumort.	not recognized	Asteliaceae
37 [66]. Hypoxidaceae R. Br.	Amaryllidaceae: <i>Curcu-</i> <i>ligo, Hypoxis</i>	Hypoxidaceae
38 [70]. Iridaceae Juss.	as APG IV	as APG IV
39 [72]. Asphodelaceae Juss.	Liliaceae: <i>Aloe</i>	Asphodelaceae
40 [73]. Amaryllidaceae J. St.-Hil.	Liliaceae: <i>Dianella</i>	Phormiaceae
	Liliaceae: <i>Hemerocallis</i>	Hemerocallidaceae
	Amaryllidaceae: <i>Agap-</i> <i>panthus, Crinum, Lycoris</i> , Amaryllidaceae: <i>Crinum, Lycoris, Nar-</i> <i>cissus, Pancratium, Zephyranthes</i>	Zephyranthes
	Liliaceae: <i>Allium</i>	Alliaceae
41. [74]. Asparagaceae Juss.	Agavaceae: <i>Agave</i>	Asparagaceae
	Liliaceae: <i>Asparagus</i>	
	Liliaceae: <i>Aspidistra,</i> <i>Disporopsis, Disporum,</i> <i>Polygonatum, Tupistra</i>	Convallariaceae: excl. <i>Disporum</i>
	Agavaceae: <i>Dracaena,</i> <i>Sansevieria</i>	Dracaenaceae
	Agavaceae: <i>Urginea</i>	Hyacinthaceae
	Agavaceae: <i>Nolina</i>	Nolinaceae: <i>Nolina</i>
Arecales Bromhead		
42 [76]. Arecaceae Bercht. & J. Presl	as APG IV	as APG IV
Commelinales Mirb. ex Bercht. J. Presl		
43 [77]. Hanguanaceae Airy Shaw	as APG IV	as APG IV
44 [78]. Commelinaceae Mirb.	as APG IV	as APG IV
45 [79]. Philydraceae Link	as APG IV	as APG IV
46 [80]. Pontederidaceae Kunth.	as APG IV	as APG IV
Zingiberales Griseb.		
47 [82]. Strelitziaceae Hutch.	as APG IV	as APG IV
48 [83]. Lowiaceae Ridl.	as APG IV	as APG IV
49 [84]. Heliconiaceae Vines	as APG IV	as APG IV
50 [85]. Musaceae Juss.	as APG IV	as APG IV
51 [86]. Cannaceae Juss.	as APG IV	as APG IV
52 [87]. Marantaceae R. Br.	as APG IV	as APG IV
53 [88]. Costaceae Nakai	Zingiberaceae: <i>Costus</i>	Costaceae: <i>Costus</i>

54 [89]. Zingiberaceae Martinov	Zingiberaceae: excl. <i>Costus</i>	Zingiberaceae
Poales Small		
55 [90]. Typhaceae Juss.	Sparganiaceae Typhaceae	as IFV as IFV
56 [91]. Bromeliaceae Juss.	as APG IV	as APG IV
57 [93]. Xyridaceae C. Agardh	as APG IV	as APG IV
58 [94]. Eriocaulaceae Martinov	as APG IV	as APG IV
59 [97]. Juncaceae Juss.	as APG IV	as APG IV
60 [98]. Cyperaceae Juss.	as APG IV	as APG IV
61 [99]. Restionaceae R. Br.	Restionaceae Centrolepidaceae	as IFV as IFV
62 [100]. Flagellariaceae Dumort.	as APG IV	as APG IV
63 [103]. Poaceae Barnhart	as APG IV	as APG IV
PROBABLE SISTER OF EUDICOTS		
Ceratophyllales Link		
64 [104]. Ceratophyllaceae Gray	as APG IV	as APG IV
EUDICOTS		
Ranunculales Juss. ex Bercht. & J. Presl		
65 [106]. Papaveraceae Juss.	Papaveraceae Fumariaceae	as IFV as IFV
66 [108]. Lardizabalaceae R. Br.	Lardizabalaceae Sargentodoxaceae	as IFV as IFV
67 [109]. Menispermaceae Juss.	as APG IV	as APG IV
68 [110]. Berberidaceae Juss.	as APG IV	as APG IV
69 [111]. Ranunculaceae Juss.	as APG IV	as APG IV
Proteales Juss. ex Bercht. & J. Presl		
70 [112]. Sabiaceae Blume	Sabiaceae: excl. <i>Hugonia, Indoroucheria</i>	as APG IV
71 [113]. Nelumbonaceae A. Rich.	as APG IV	as APG IV
72 [114]. Platanaceae T. Lestib.	as APG IV	as APG IV
73 [115]. Proteaceae Juss.	as APG IV	as APG IV
Buxales Takht. ex Reveal		
74 [117]. Buxaceae Dumort.	as APG IV	as APG IV
CORE EUDICOTS		
#Dilleniales DC. ex Bercht. & J. Presl		
75 [120]. Dilleniaceae Salisb.	as APG IV	as APG IV
SUPERROSIDS		
Saxifragales Bercht. & J. Presl.		
76 [122]. Paeoniaceae Raf.	as APG IV	as APG IV
77 [123]. Altingiaceae Lindl.	as APG IV	as APG IV
78 [124]. Hamamelidaceae R. Br.	as APG IV	as APG IV
79 [127]. Iteaceae J. Agardh	Saxifragaceae: <i>Itea</i>	Iteaceae
80 [129]. Saxifragaceae Juss.	Saxifragaceae: excl. <i>Pilostigma</i>	Saxifragaceae
81 [130]. Crassulaceae J.St.-Hil.	as APG IV	as APG IV
82 [133]. Penthoraceae Rydb. ex Britton	Pittosporaceae: <i>Penthorrum</i>	Penthoraceae
83 [134]. Haloragaceae R. Br.	as APG IV	as APG IV

ROSIDS		
Vitales Juss. ex Bercht. & J. Presl		
84 [136]. Vitaceae Juss.	Vitaceae	as IFV
	Leeaceae	as IFV
Zygophyllales Link		
85 [138]. Zygophyllaceae R. Br.	as APG IV	as APG IV
Fabales Bromhead		
86 [140]. Fabaceae Lindl.	Ceasalpiniaceae	as APG IV
	Mimosaceae	
87 [141]. Surianaceae Arn.	not recognized	Simaroubaceae: <i>Suriana</i>
88 [142]. Polygalaceae Hoffmanns. & Link	as APG IV	as APG IV
Rosales Bercht. & J. Presl		
89 [143]. Rosaceae Juss.	Rosaceae: excl. <i>Chrysobalanus</i> , <i>Parinari</i>	as APG IV
90 [146]. Elaeagnaceae Juss.	as APG IV	as APG IV
91 [147]. Rhamnaceae Juss.	as APG IV	as APG IV
92 [148]. Ulmaceae Mirb.	Ulmaceae: Ulmus	as APG IV
93 [149]. Cannabaceae Martinov.	as APG IV	as APG IV
94 [150]. Moraceae Gaudich.	as APG IV	as APG IV
95 [151]. Urticaceae Juss.	as APG IV	as APG IV
Fagales Engl.		
96 [153]. Fagaceae Dumort.	as APG IV	as APG IV
97 [154]. Myricaceae Rich. ex Kunth	as APG IV	as APG IV
98 [155]. Juglandaceae DC. Ex Perleb	Juglandaceae	as IFV
	Rhoipteleaceae	as IFV
99 [156]. Casuarinaceae R. Br.	as APG IV	as APG IV
100 [158]. Betulaceae Gray	as APG IV	as APG IV
Cucurbitales Juss. ex Bercht. & J. Presl		
101 [160]. Anisophylleaceae Ridl.	as APG IV	as APG IV
102 [163]. Cucurbitaceae Juss.	as APG IV	as APG IV
103 [165]. Daticaceae Dumort.	as APG IV	as APG IV
104 [166]. Begoniaceae C. Agardh	as APG IV	as APG IV
[COM-clade; placement uncertain]		
Celastrales Link		
105 [168]. Celastraceae R. Br.	Celastraceae	as IFV
	not recognized	Siphonodontataceae
Oxalidales Bercht. & J. Presl		
106 [170]. Connaraceae R. Br.	as APG IV	as APG IV
107 [171]. Oxalidaceae R. Br.	as APG IV	as APG IV
108 [173]. Elaeocarpaceae Juss.	as APG IV	as APG IV
Malpighiales Juss. ex Bercht. & J. Presl		
109 [179]. Rhizophoraceae Pers.	as APG IV	as APG IV
110 [180]. Erythroxylaceae Kunth	as APG IV	as APG IV
111 [181]. Ochnaceae DC.	as APG IV	as APG IV
112 [182]. Bonnetiaceae L. Beauvis. ex Nakai	not recognized	as APG IV
113 [183]. Clusiaceae Lindl.	Clusiaceae: Garcinia	as APG IV
114 [184]. Calophyllaceae J. Agardh	Clusiaceae: <i>Calophyllum</i> , <i>Mesua</i> , <i>Kayea</i>	
	<i>Mesua</i>	

115 [185]. Podostemaceae Rich. ex Kunth	as APG IV	as APG IV
116 [186]. Hypericaceae Juss.	Clusiaceae: <i>Cratoxylum, Hypericum</i>	as APG IV
117 [189]. Putranjivaceae Meisn.	Euphorbiaceae: <i>Drypetes</i>	as APG IV
118 [191]. Elatinaceae Dumort.	as APG IV	as APG IV
119 [192]. Malpighiaceae Juss.	as APG IV	as APG IV
120 [195]. Dichapetalaceae Baill.	as APG IV	as APG IV
121 [197]. Chrysobalanaceae R. Br.	Rosaceae: <i>Chrysobalanus, Parinari</i>	as APG IV
122 [199]. Achariaceae Harms	Flacourtiaceae: <i>Hydrocarpus</i>	Flacourtiaceae: <i>Gynocardia, Hydrocarpus</i>
123 [200]. Violaceae Batsch	as APG IV	as APG IV
124 [202]. Passifloraceae Juss. ex Roussel	Passifloraceae	as IFV
	Turneraceae	as IFV
125 [204]. Salicaceae Mirb.	Flacourtiaceae: excl. <i>Hydrocarpus</i>	Flacourtiaceae: excl. <i>Gynocardia, Hydrocarpus</i>
	Salicaceae	as IFV
126 [206]. Rafflesiaceae Dumort.	Rafflesiaceae: <i>Sapria</i>	as APG IV
127 [207]. Euphorbiaceae Juss.	Euphorbiaceae: <i>Acalypha, Alchornea, Aleurites, Baliospermum, Blachia, Chaetocarpus, Cladogynos, Claoxylon, Cleidocarpon, Cleidion, Cnesmone, Codiaeum, Croton, Dalechampia, Duetzianthus, Dimorphocalyx, Endospermum, Epipérinus, Erismantus, Euphorbia, Excoecaria, Hevea, Homonoia, Hura, Jatropha, Manihot, Melanolepis, Ostodes, Pachystylidium, Pedilanthus, Ricinus, Strophio-blachia, Sumbaviopsis, Suregada, Trevia, Trigonostemon, Vernicia.</i>	Euphorbiaceae: <i>Acalypha, Alchornea, Aleurites, Baliospermum, Blachia, Chaetocarpus, Cladogynos, Claoxylon, Cleidocarpon, Cleidion, Cnesmone, Codiaeum, Croton, Dalechampia, Duetzianthus, Dimorphocalyx, Endospermum, Epipérinus, Erismanthus, Euphorbia, Excoecaria, Hevea, Homonoia, Hura, Jatropha, Koilodapas, Lasiococca, Macaranga, Mallotus, Manihot, Melanolepis, Ostodes, Pachystylidium, Pedilanthus, Ricinus, Strophio-blachia, Sumbaviopsis, Suregada, Trevia, Trigonostemon, Vernicia.</i>
128 [208]. Linaceae DC. ex Perleb.	Linaceae	as IFV
129 [209]. Ixonanthaceae Planch. ex Miq.	Sabiaceae: <i>Hugonia, Indoroucheria</i>	Hugoniaceae
130 [211]. Phyllanthaceae Martinov	as APG IV	as APG IV
	Euphorbiaceae: <i>Aporosa, Actephila, Antidesma, Aporosa, Baccaurea, Bischofia, Breynia, Bridelia, Cleistanthus, Flueggea, Glochidion,</i>	as IFV

		<i>Hymenocardia, Leptopus,</i> <i>Margaritaria, Phyl-</i> <i>lanthus, Sauropolis</i>
Geriales Juss. ex Bercht. & J. Presl		
131 [212]. Geraniaceae Juss.	as APG IV	as APG IV
Myrales Juss. ex Bercht. & J. Presl		
132 [214]. Combretaceae R. Br.	as APG IV	as APG IV
	Lythraceae	as IFV
133 [215]. Lythraceae J. St.-Hil.	Punicaceae	as IFV
	Sonneratiaceae	as IFV
	Trapaceae	as IFV
134 [218]. Myrtaceae Juss.	as APG IV	as APG IV
135 [219]. Melastomataceae Juss.	as APG IV	as APG IV
136 [220]. Crypteroniaceae A. DC.	as APG IV	as APG IV
Crossosomatales Takht. ex Reveal		
137 [226]. Staphyleaceae Martinov.	Staphyleaceae: excl. <i>Tapiscia</i>	as IFV
138 [228]. Stachyuraceae J. Agardh	as APG IV	as APG IV
Huerteales Doweld		
139 [233]. Tapisciaceae Takht.	Staphyleaceae: Tapiscia	as IFV
140 [234]. Dipentodontaceae Merr.	not recognized	Dipentodontaceae
Sapindales Juss. ex Bercht. & J. Presl		
141 [238]. Burseraceae Kunth	Burseraceae	Annacardiaceae: <i>Bursera, Canarium,</i>
142 [239]. Anacardiaceae R. Br.	Anacardiaceae	<i>Dacryodes, Garuga, Protium</i>
	Aceraceae	as IFV
143 [240]. Sapindaceae Juss.	Hippocastanaceae	as IFV
	Sapindaceae	as IFV
	Rutaceae	as IFV
144 [241]. Rutaceae Juss.	Simaroubaceae: Harri- <i>sonia</i>	as IFV
145 [242]. Simaroubaceae DC.	Simaroubaceae: excl. <i>Ir-</i> <i>vingia</i>	Simaroubaceae: excl. <i>Suriana</i>
146 [243]. Meliaceae Juss.	as APG IV	as APG IV
Malvales Juss. ex Bercht. & J. Presl		
	Bombacaceae	as APG IV
147 [247]. Malvaceae Juss.	Malvaceae	as APG IV
	Sterculiaceae	as APG IV
	Tiliaceae	as APG IV
148 [249]. Thymelaeaceae Juss.	as APG IV	as APG IV
149 [250]. Bixaceae Kunth	Bixaceae	as APG IV
	Cochlospermaceae	as APG IV
150 [253]. Dipterocarpaceae Blume	as APG IV	as APG IV
Brassicales Bromhead		
151 [254]. Akaniaceae Stapf.	Bretschneideraceae	as IFV
152 [255]. Tropaeolaceae Juss. ex DC.	as APG IV	as APG IV
153 [256]. Moringaceae Martinov	as APG IV	as APG IV
154 [257]. Caricaceae Dumort.	as APG IV	as APG IV
155 [262]. Salvadoraceae Lindl	as APG IV	as APG IV
156 [267]. Resedaceae Martinov	Capparaceae: <i>Neothore-</i> <i>lia, Stixis, Tirania</i>	Capparaceae: <i>Stixis, Tirania</i>

157 [268]. Capparaceae Juss.	Capparaceae: excl. Cleome	as IFV
158 [269]. Cleomaceae Bercht. & J. Presl	Capparaceae: Cleome	as IFV
159 [270]. Brassicaceae Burnett	as APG IV	as APG IV
SUPERASTERIDS		
Santalales R. Br. ex Bercht. & J. Presl		
160 [273]. 'Olacaceae' R. Br.	Olacaceae not recognized	as IFV Erythropalaceae
161 [274]. Opiliaceae Veleton	as APG IV	as APG IV
162 [275]. Balanophoraceae Rich.	as APG IV	as APG IV
163 [276]. 'Santalaceae' R. Br.	Santalaceae Loranthaceae: <i>Ginalloa</i> , <i>Korthalsella</i> , <i>Viscum</i>	as IFV Viscaceae
164 [278]. Schoepfiaceae Blume	Olacaceae: <i>Schoepfia</i>	as APG IV
165 [279]. Loranthaceae Juss.	Loranthaceae Saxifragaceae: <i>Pilostigma</i>	as IFV
Caryophyllales Juss. ex Bercht. & J. Presl		
166 [281]. Tamaricaceae Link	as APG IV	as APG IV
167 [282]. Plumbaginaceae Juss.	as APG IV	as APG IV
168 [283]. Polygonaceae Juss.	as APG IV	as APG IV
169 [284]. Droseraceae Salisb.	as APG IV	as APG IV
170 [285]. Nepenthaceae Dumort.	as APG IV	as APG IV
171 [288]. Ancistrocladaceae Planch. ex Walp.	as APG IV	as APG IV
172 [295]. Caryophyllaceae Juss.	as APG IV	as APG IV
173 [297]. Amaranthaceae Juss.	Amaranthaceae Chenopodiaceae	as IFV as IFV
174 [303]. Gisekiaceae Nakai	Aizoaceae: <i>Gisekia</i>	Molluginaceae: <i>Gisekia</i>
175 [304]. Aizoaceae Martinov	Aizoaceae not recognized	as IFV Tetragoniaceae
176 [305]. Phytolaccaceae R. Br.	as APG IV	as APG IV
177 [308]. Nyctaginaceae Juss.	as APG IV	as APG IV
178 [309]. Molluginaceae Bartl.	Molluginaceae: <i>Glinus</i>, <i>Mollugo</i>	as IFV
179 [312]. Basellaceae Raf.	as APG IV	as APG IV
180 [314]. Talinaceae Doweld	Portulacaceae: <i>Talinum</i>	as IFV
181 [315]. Portulacaceae Juss.	as APG IV	as APG IV
182 [317]. Cactaceae Juss.	as APG IV	as APG IV
ASTERIDS		
Cornales Link		
183 [318]. Nyssaceae Juss. ex Dumort.	Nyssaceae Cornaceae: <i>Mastixia</i> not recognized	as IFV Mastixiaceae Davidiaceae
184 [320]. Hydrangeaceae Dumort.	Hydrangeaceae: <i>Dichroa</i> , <i>Hydrangea</i> , <i>Pliostegia</i> , <i>Schizophragma</i>	Saxifragaceae: <i>Dichroa</i> , <i>Hydrangea</i>
185 [324]. Cornaceae Bercht. & J. Presl	Alangiaceae Cornaceae: <i>Cornus</i>	as IFV Cornaceae
Ericales Bercht. & J. Presl		
186 [325]. Balsaminaceae A. Rich.	as APG IV	as APG IV
187 [329]. Polemoniaceae Juss.	as APG IV	as APG IV

188 [330]. Lecythidaceae A. Rich.	as APG IV	as APG IV
	Pentaphylacaceae	as IFV
189 [332]. Pentaphylacaceae Engl.	Theaceae: <i>Adinandra</i> , <i>Anneslea</i> , <i>Eurya</i> , <i>Ternstroemia</i>	Theaceae: <i>Adinandra</i> , <i>Anneslea</i> , <i>Eurya</i>
190 [333]. Sapotaceae Juss.	as APG IV	as APG IV
191 [334]. Ebenaceae Gurke	as APG IV	as APG IV
192 [335]. Primulaceae Batsch ex Borkh.	Myrsinaceae Primulaceae	as IFV as IFV
193 [336]. Theaceae Mirb.	Theaceae: excl. <i>Adinandra</i> , <i>Anneslea</i> , <i>Eurya</i> , <i>Ternstroemia</i>	Theaceae: excl. <i>Adinandra</i> , <i>Anneslea</i> , <i>Eurya</i>
194 [337]. Symplocaceae Desf.	as APG IV	as APG IV
195 [338]. Diapensiaceae Lindl.	not recognized	as APG IV
196 [339]. Styracaceae DC. & Spreng.	as APG IV	as APG IV
197 [342]. Actinidiaceae Gilg & Werderm.	as APG IV	as APG IV
198 [343]. Clethraceae Klotzsch	as APG IV	as APG IV
199 [345]. Ericaceae Juss.	Ericaceae Epacridaceae not recognized	as IFV as IFV Pyrolaceae
200 [346]. Mitrastemonaceae Makino [placement in order unclear]	Rafflesiaceae : <i>Mitrastemon</i>	as IFV
# Icacinales Tiegh.		
201 [348]. Icacinaceae Miers	Icacinaceae : excl. <i>Gomphandra</i> , <i>Gonocaryum</i>	as IFV
Garryales Mart.		
202 [350]. Eucommiaceae Engl.	as APG IV	as APG IV
203 [351]. Garryaceae Lindl.	Cornaceae: <i>Aucuba</i>	Aucubaceae
Gentianales Juss. ex Bercht. & J. Presl		
204 [352]. Rubiaceae Juss.	Rubiaceae : excl. <i>Carlemannia</i>	as IFV
205 [353]. Gentianaceae Juss.	Gentianaceae Potaliaceae	as IFV as IFV
206 [354]. Loganiaceae R. Br. ex Mart.	Loganiaceae : <i>Mitrasacme</i> , <i>Mitreola</i> , <i>Strychnos</i>	as IFV
207 [356]. Apocynaceae Juss.	Apocynaceae Asclepiadaceae	as IFV as IFV
Boraginales Juss. ex Bercht. & J. Presl		
208 [357]. Boraginaceae Juss.	as APG IV	as APG IV
Solanales Juss. ex Bercht. & J. Presl		
209 [359]. Convolvulaceae Juss.	Convolvulaceae not recognized	as IFV Cuscutaceae
210 [360]. Solanaceae Juss.	as APG IV	as APG IV
211 [362]. Sphenocleaceae T. Baskerv.	as APG IV	as APG IV
212 [363]. Hydroleaceae R. Br.	as APG IV	as APG IV
Lamiales Romhead		
213 [365]. Carlemanniaceae Airy Shaw	Rubiaceae : <i>Carlemannia</i> Caprifoliaceae : <i>Silvanthus</i>	as IFV as IFV

214 [366]. Oleaceae Hoffmanns. & Link	as APG IV	as APG IV
215 [369]. Gesneriaceae Rich. & Juss.	as APG IV	as APG IV
	Plantaginaceae	as IFV
216 [370]. Plantaginaceae Juss.	Scrophulariaceae: <i>An-</i> <i>gelonia</i>	Scrophulariaceae: <i>Adenosma, Angelonia, Antirrhinum, Bacopa, Digitalis, Limnophila, Russelia, Scoparia, Stemodia, Veronica</i>
217 [371]. Scrophulariaceae Juss.	Callitrichiaceae	as IFV
218 [373]. Linderniaceae Borsch et al.	Buddlejaceae	as IFV
	Myoporaceae	as IFV
	Scrophulariaceae: <i>Scrophularia</i>	as IFV
	Scrophulariaceae: <i>Legazpia, Linderna, Picria, Pierranthus, Torenia</i>	as IFV
219 [375]. Martyniaceae Horan.	as APG IV	as APG IV
220 [376]. Pedaliaceae R. Br.	as APG IV	as APG IV
221 [377]. Acanthaceae Juss.	Acanthaceae	as IFV
	Verbenaceae: <i>Avincen-</i> <i>nia</i>	as IFV
222 [378]. Bignoniaceae Juss.	as APG IV	as APG IV
223 [379]. Lentibulariaceae Rich.	as APG IV	as APG IV
	Verbenaceae: <i>Duranta, Lantana, Phyla, Stachtar-</i> <i>pheta, Verbena</i>	as IFV
224 [382]. Verbenaceae J. St. Hil.	Lamiaceae	as IFV
225 [383]. Lamiaceae Martinov	Verbenaceae: <i>Callicarpa, Caryopteris, Clerodendron, Congea, Garretzia, Gmelina, Hy-menopyramis, Karomia, Prema, Schnabelia, Sphenodesme, Tectona, Teijs-manniodendron, Tsooni-</i> <i>gia, Vitex</i>	as IFV
226 [384]. Mazaceae Reveal	Scrophulariaceae: <i>Mazu-</i>	as IFV
227 [385]. Phrymaceae Schauer	Scrophulariaceae: <i>Mim-</i> <i>ulus, Mazus, Microcar-</i> <i>paea</i>	as IFV
228 [386]. Paulowniaceae Nakai	Scrophulariaceae: <i>Pau-</i> <i>lownia</i>	as IFV
229 [387]. Orobanchaceae Vent.	Orobanchaceae	as IFV
	Scrophulariaceae: <i>Alec-</i> <i>tra, Brandisia, Centran-</i> <i>thera, Lindenbergia, Pe-</i> <i>dicularis, Rehmannia,</i> <i>Sopubia, Wightia</i>	as IFV
Aquifoliales Senft		

230 [388]. Stemonuraceae Karedh	Icacinaceae: <i>Gomphandra</i>	as IFV
231 [389]. Cardiopteridaceae Blume	Cardiopteridaceae	as IFV
	Icacinaceae: <i>Gonocaryum</i>	as IFV
232 [391]. Helwingiaceae Decne.	Cornaceae: <i>Helwingia</i>	as APG IV
233 [392]. Aquifoliaceae Bercht. & J. Presl	as APG IV	as APG IV
Asterales Link		
	Campanulaceae: excl.	
234 [394]. Campanulaceae Juss.	<i>Pentaphragma</i>	as IFV
	Lobeliaceae	as IFV
235 [395]. Pentaphragmataceae J. Agardh	Campanulaceae: <i>Pentaphragma</i>	as IFV
236 [396]. Styliadiaceae R. Br.	as APG IV	as APG IV
237 [400]. Menyanthaceae Dumort.	as APG IV	as APG IV
238 [401]. Goodeniaceae R. Br. ex Rich.	as APG IV	as APG IV
239 [403]. Asteraceae Bercht. & J. Presl	as APG IV	as APG IV
Escalloniales Link		
240 [404]. Escallonioiaceae R. Br. ex Dumort.	Saxifragaceae: <i>Polyosma</i>	Escallonioiaceae: <i>Polyosma</i>
Dipsacales Juss. ex Bercht. & J. Presl		
241 [408]. Adoxaceae E. Mey.	Caprifoliaceae: <i>Sambucus, Viburnum</i>	as IFV
242 [409]. Caprifoliaceae Juss.	Caprifoliaceae: <i>Lonicera</i>	Caprifoliaceae: <i>Abelia, Lonicera</i>
	Dipsacaceae	as IFV
	Valerianaceae	as IFV
Apiales Nakai		
243 [411]. Torricelliaceae Hu	Cornaceae: <i>Torricellia</i>	as APG IV
244 [413]. Pittosporaceae R. Br.	Pittosporaceae: excl. <i>Penthorum</i>	as APG IV
245 [414]. Araliaceae Juss.	Araliaceae	as IFV
	Apiaceae: <i>Hydrocotyle</i>	as IFV
246 [416]. Apiaceae Lindl.	Apiaceae: excl. <i>Hydrocotyle</i>	as IFV

Note: Numbers in square brackets are those of the linear Angiosperm Phylogeny Group of APG IV (2016).