

Table S1. Species list, voucher information and GenBank data accession number of the taxa used for the analysis.

Taxon incl. origin	Collector(s)	Voucher	GenBank accession numbers		
			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. abbreviata</i> Indonesia	Kessler	L:2022	AB828603	-	-
<i>D. abrahamii</i> Madagascar	Forest	L:5659	AB828604	-	-
<i>D. acariiantha</i> Tanzania	Bidgood et al.	L:1348	AB828605	-	-
<i>D. acuta</i> Brazil	Salino & Lombardi	A. Salino & J.A. Lombardi 1692 (BHCB)	EF451064	-	-
<i>D. adamii</i> Guinea	Jongkind	WAG:8088	AB828606	-	-
<i>D. arbutifolia</i> Tanzania	Kayombo	L:3844	AB828608	-	-
<i>D. armata</i> South Africa	Groenendijk	WAG:241	AB828609	-	-
<i>D. assamica</i> China	Hu & But	L22805	KM521354	KM521275	KM510234
<i>D. assamica</i> China	Fei-yan et al.	AAU1530	-	KM521273	KM510233
<i>D. assamica</i> Vietnam	Poilane	AAU25005	KM521356	KM521272	KM510231
<i>D. aurea</i> Madagascar	Capuron	WAG:3068	AB828611	-	-
<i>D. balansae</i> China	Hu	L:22805	AB828612	-	-
<i>D. balansae</i> China			KP092712	KP094088	KP095042
<i>D. balansae</i> China			KP092713	KP094089	KP095043
<i>D. baronii</i> Madagascar	Rabevohitra	WAG:3875	AB828613	-	-
<i>D. benthamii</i> China	Hu	L:21989	AB828614	-	-
<i>D. bignoniae</i> Benin	Ptsultaf	WAG:7983	AB828615	-	-
<i>D. bintuluensis</i> Indonesia	Sidiyasa	L:2375	AB828616	-	-
<i>D. boehmii</i> Mozambique	Kayombo	WAG:6861	AB828617	-	-
<i>D. bojeri</i> Madagascar	Randrianaivo	WAG:694	AB828618	-	-
<i>D. bracteolata</i> Madagascar	Thulin	V-533658	MN264656	MN166670	MN166744
<i>D. bracteolata</i> Tanzania	Bidgood		-	MN166671	MN166745
<i>D. bracteolata</i> Madagascar	Wohlhauser	WAG:60139	AB828619	-	-
<i>D. brasiliensis</i> Brazil	Cordeiro	Ines Cordeiro	EF451076	-	-
<i>D. cana</i> Thailand	Hartvig Larsen	AAU2260	KM521357	KM521279	KM510239
<i>D. cana</i> Thailand	FRDU & Van der Welzen	L9	KM521358	KM521284	KM510244
<i>D. candenatensis</i> Thailand	Kerr	AAU15404	KM521360	KM521281	KM510240

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			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. candenatensis</i> Thailand	Hartvig Larsen	AAU30989	KM521361	KM521282	KM510241
<i>D. candenatensis</i> Thailand	Van der Kevie	L25	KM521362	KM521283	KM510242
<i>D. canescens</i> Philippines	Soejarto	L:7479	AB828622	-	-
<i>D. capuronii</i> Madagascar	Capuron	WAG:27807	AB828623	-	-
<i>D. cearensis</i> Brazil	Jardim	MO:1775	AB828663	-	-
<i>D. cochinchinensis</i> Cambodia	Hartvig Larsen	C28	KM521363	KM521288	KM510248
<i>D. cochinchinensis</i> Laos	Hartvig Larsen	C35	KM521365	KM521289	KM510249
<i>D. cochinchinensis</i> Thailand	Middleton	K233	KM521367	KM521287	KM510247
<i>D. congestiflora</i> El Salvador	Hughes	Hughes 1253	AF068140	-	-
<i>D. cuiabensis</i> Brazil	Irwin	Irwin 15942	EF451065	-	-
<i>D. cultrata</i> China	M. Czako, Univ. South Carolina, USA	MC60	KM521369	KM521300	KM510260
<i>D. cultrata</i> Thailand	Hartvig Larsen & Maxwell	C37	KM521370	KM521291	KM510251
<i>D. cultrata</i> Thailand	Niyomdham et al.	C130	KM521371	KM521290	KM510250
<i>D. cultrata</i> Myanmar	Lace	K4141	-	KM521292	KM510252
<i>D. decipularis</i> Brazil	Lemos Filho	J.P. Lemos Filho s.n. (BHCB)	EF451077	-	-
<i>D. decipularis</i> Brazil			MH465106	-	-
<i>D. dialoides</i> Vietnam	Duong et al.		HG313775	HG313778	-
<i>D. dongnaiensis</i> Thailand	Maxwell	L:849	AB828627	-	-
<i>D. dyeriana</i> China	Sino-America Botanical Expedition	Guizhou L2221	KM521372	KM521295	KM510255
<i>D. ecastaphyllum</i> Florida	living coll., M. Czako, Univ. South Carolina, USA	MC12	KM521373	KM521296	KM510256
<i>D. ecastaphyllum</i> Florida	living coll., M. Czako, Univ. South Carolina, USA	MC27	KM521374	KM521297	KM510257
<i>D. ecastaphyllum</i> Belize	Croat	L:23287	AB828628	-	-
<i>D. elegans</i> Brazil	Lemos Filho	J.P. Lemos Filho (BHCB)	EF451066	-	-
<i>D. entadoides</i> Thailand	Niyomdham	AAU5099	KM521375	KM521298	KM510258
<i>D. entadoides</i> Vietnam	Duong et al.		HG313773	HG313776	-
<i>D. falcata</i> Indonesia	Ambriansyah	L:448	AB828629	-	-

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			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. floribunda</i> Thailand	Maxwell	L:159	AB828630	-	-
<i>D. foliolosa</i> Brazil	Couto	Couto 244	EF451067	-	-
<i>D. frutescens</i> Brazil	Lemos Filho	J.P. Lemos Filho s.n. (BHCB)	EF451078	-	-
<i>D. frutescens</i> var. <i>frutescens</i> Brazil	Wasum	L:1585	AB828631	-	-
<i>D. frutescens</i> var. <i>tomentosa</i> Bolivia	Solomon	L:9409	AB828632	-	-
<i>D. glomerata</i> Mexico	Sousa	L:9349	AB828633	-	-
<i>D. godefroyi</i> Thailand	Maxwell	L:65	AB828634	-	-
<i>D. greveana</i> Madagascar	Randrianaivo	L:441	AB828635	-	-
<i>D. hainanensis</i> China	Yu et al.	W11450	KY484181	KY484223	-
<i>D. hainanensis</i> China	Yu et al.	W13021	KY484183	KY484225	-
<i>D. hancei</i> China	Hu	L:21333	AB828636	KM521302	KM510263
<i>D. havilandii</i> Indonesia	Ambriansyah	L:2599	AB828637	-	-
<i>D. horrida</i> India			KM276096	KM276404	KM099984
<i>D. horrida</i> India			KM276098	KM276407	KM099985
<i>D. horrida</i> India			KM276104	KM276410	KM099987
<i>D. horrida</i> India	Reddi	L:25899	AB828638	-	-
<i>D. horrida</i> var. <i>glabrescens</i> Laos	Poilane	AAU11947	-	KM521304	KM510264
<i>D. hostilis</i> Guinea	Jongkind	WAG:7790	AB828639	-	-
<i>D. humbertii</i> Madagascar	Meyers	L:229	AB828640	-	-
<i>D. hupeana</i> China	Duan	Duan 2017001	MN496335	MN497643	-
<i>D. hupeana</i> China	Wang Yang-Ming	K326	KM521378	KM521305	KM510265
<i>D. hupeana</i> China	Lei	L913	-	KM521306	KM510266
<i>D. inundata</i> Brazil	Meireles	MO:367	AB828664	-	-
<i>D. junghuhnii</i> Malaysia	Gardette	L:2177	AB828641	-	-
<i>D. kurzii</i> Thailand	Maxwell	L:286	AB828642	-	-
<i>D. lactea</i> Ethiopia	De Wilde	WAG:6120	AB828643	-	-
<i>D. lakhonensis</i> Thailand	Maxwell	L:444	AB828644	-	-

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			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. lanceolaria</i> Thailand	living coll., M. Czako, Univ. South Carolina, USA	MC61	KM521379	KM521270	KM510229
<i>D. lanceolaria</i> Thailand		C41	KM676496	KM676487	KM676476
<i>D. lanceolaria</i> Thailand	Maxwell	L:921	AB828645	-	-
<i>D. lanceolaria</i> Thailand	Maxwell	CMU00-194	-	KM521307	KM510268
<i>D. lanceolaria</i> subsp. <i>Paniculata</i> India			KM276152	-	KM100055
<i>D. lanceolaria</i> subsp. <i>Paniculata</i> India			KM276155	-	KM100057
<i>D. lanceolaria</i> var. <i>errans</i> Thailand	Hartvig Larsen	C894	KM521380	-	KM510269
<i>D. lateriflora</i> Brazil	Silva	MO:1057	AB828665	-	-
<i>D. latifolia</i> India	living coll., M. Czako, Univ. South Carolina, USA	MC23	KM521381	KM521309	KM510270
<i>D. maritima</i> Madagascar	Faliniaina	L:10	AB828647	-	-
<i>D. martinii</i> Zambia	Brumitt	L:16910	AB828648	-	-
<i>D. melanocardium</i> Mexico	Wendt	L:3889	AB828649	-	-
<i>D. melanoxydon</i> Tanzania	living coll., M. Czako, Univ. South Carolina, USA	MC6	KM521382	KM521310	KM510271
<i>D. melanoxydon</i> South Africa	Maurin	OM268	-	JF270736	JF265384
<i>D. melanoxydon</i> Tanzania	Maurin	OM2394	-	JX517916	JX572502
<i>D. mimosoides</i> China	F	AAU138	-	KM521311	KM510272
<i>D. miscolobium</i> Brazil	living coll., M. Czako, Univ. South Carolina, USA	MC63	KM521383	KM521312	KM510273
<i>D. miscolobium</i> Brazil	Sano	MO:14516	AB828666	-	-
<i>D. monetaria</i> Puerto Rico	living coll., M. Czako, Univ. South Carolina, USA	MC13	KM521384	KM521313	KM510274
<i>D. monetaria</i> Puerto Rico	living coll., M. Czako, Univ. South Carolina, USA	MC22	KM521385	KM521314	KM510275
<i>D. monetaria</i> Ecuador	Acevedo	U:6876	AB828651	-	-
<i>D. multijuga</i> South Africa	Tony Abbott	Abbott9158	-	JX517995	JX572503

Taxon incl. origin	Collector(s)	Voucher	GenBank accession numbers		
			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. nigra</i> Brazi	Lemos Filho	J.P. Lemos Filho	EF451074	-	-
<i>D. nigra</i> Brazil	Lemos Filho	J.P. Lemos Filho	EF451075	-	-
<i>D. nigrescens</i> Thailand	Hartvig Larsen	L3344	KM521386	KM521317	KM510278
<i>D. nigrescens</i> Thailand	Hartvig Larsen	AAU34002	-	KM521316	KM510277
<i>D. nigrescens</i> Thailand	living coll., M. Czako, Univ. South Carolina, USA	MC55	-	KM521318	KM510279
<i>D. nigrescens</i> Thailand	Hartvig Larsen	AAU31702	-	KM521315	KM510276
<i>D. obovata</i> South Africa	Tony Abbott	Abbott9170	-	JX517804	JX572504
<i>D. odorifera</i> China	How	K70769	KM521377	KM521301	KM510261
<i>D. odorifera</i> China	Chun & Tso	K44712	KM521388	KM521319	KM510280
<i>D. odorifera</i> China	M. Czako, Univ. South Carolina, USA	MC62	KM521389	KM521320	KM510281
<i>D. oliveri</i> Thailand	Hartvig Larsen	L2153	KM521396	KM521324	KM510254
<i>D. oliveri</i> Cambodia	Hartvig Larsen	C21	KM521390	KM521277	KM510237
<i>D. oliveri</i> Cambodia	Hartvig Larsen	C30	KM521391	KM521276	KM510236
<i>D. oliveri</i> Thailand	Thai-Leiden Expedition 1973	E5841	KM521394	KM521323	KM510284
<i>D. ovata</i> Myanmar	Po Khant	K1084	-	KM521327	KM510288
<i>D. ovata</i> Thailand	Maxwell	L75-159	KM521398	KM521328	KM510289
<i>D. parviflora</i> Thailand	Niyomdham	L:811	AB828653	-	-
<i>D. pinnata</i> Bangladesh	Huq & A.I.	L10430	KM521399	KM521330	KM510291
<i>D. pinnata</i> Borneo	Lugas	K1843	KM521400	KM521329	KM510290
<i>D. pinnata</i> Vietnam	Cuong et al.	L1045	KM521401	-	KM510292
<i>D. revoluta</i> Peru	s.n.		AB828667	-	-
<i>D. rimosa</i> China	M. Czako, Univ. South Carolina, USA	MC54	KM521402	KM521271	KM510230
<i>D. rimosa</i> Laos	Libman & Souliya	L628	KM521403	KM521333	KM510294
<i>D. rimosa</i> Thailand	Hartvig Larsen	L45463	KM521404	KM521332	KM510293
<i>D. rimosa</i> Thailand	living coll., M. Czako, Univ. South Carolina, USA	MC53	KM521405	KM521334	KM510295
<i>D. rimosa</i> var. <i>foliacea</i> Indonesia	FRDU	L:12	AB828655	-	-

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			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. rimosa</i> var. <i>foliacea</i> Thailand	Hartvig Larsen	C570	KM521376	KM521299	KM510259
<i>D. rostrata</i> Indonesia	Polak	L:1160	AB828656	-	-
<i>D. rostrata</i> Indonesia	Katja Rembold	KR0959	-	MG816805	MG816923
<i>D. rubiginosa</i> India			KM276169	KM276476	KM100075
<i>D. rubiginosa</i> India			KM276171	KM276483	KM100066
<i>D. rubiginosa</i> India			KM276183	KM276494	KM100079
<i>D. sandakanensis</i> Indonesia	Kessler	L:1386	AB828657	-	-
<i>D. sericea</i> Bangladesh	Huq	L:10336	AB828658	-	-
<i>D. sissooides</i> India	Anant Kumar & Sayak Chakraborty	NDF 1270	MK418451	-	-
<i>D. sissoo</i> India	Hiremath	K111	KM521407	-	KM510300
<i>D. sissoo</i> Nepa	Herbal Garden, Kanazawa Univ. Japan (East Nepal)	E9555013	KM521408	KM521338	KM510299
<i>D. sissoo</i> Pakistan	Rechinger	AAU29498	KM521409	KM521337	KM510298
<i>D. sissoo</i> India	Shetty	L1278	AB828659	-	-
<i>D. spruceana</i> Bolivia	Smith	U13743	AB828660	-	-
<i>D. stipulacea</i> Bangladesh	Huq & A.I.	L10437	KM521410	-	KM510267
<i>D. stipulacea</i> Bhutan	Grierson & Long	K3555	KM521411	KM521341	KM510303
<i>D. stipulacea</i> Laos	Newman et al.	E322	KM521412	KM521340	KM510302
<i>D. stipulacea</i> Indonesia	Chin	L:3498	AB828661	-	-
<i>D. stipulacea</i> Thailand	Hartvig Larsen	C39	KM676489	KM676479	KM676467
<i>D. tamarindifolia</i> India			KM276206	KM276515	KM100107
<i>D. tamarindifolia</i> India			KM276208	KM276518	KM100105
<i>D. tamarindifolia</i> India			KM276210	KM276521	KM100106
<i>D. thorelii</i> Cambodia	Toyama, Tagane & Yahara	FU<JPN>:1033	AB828668	AB925183	AB925814
<i>D. thorelii</i> Cambodia		KYUM<JPN>1105	-	AB925238	AB925869
<i>D. tonkinensis</i> Vietnam	Duong	VNMN<VNM>B0001204	FR854139	FR854114	-
<i>D. tonkinensis</i> Vietnam	Duong	VNMN<VNM>B0001209	FR854140	FR854115	-
<i>D. tonkinensis</i> Vietnam	Duong	VNMN<VNM>B0001214	FR854141	FR854116	-

Taxon incl. origin	Collector(s)	Voucher	GenBank accession numbers		
			ITS	<i>matK</i>	<i>rbcL</i>
<i>D. trichocarpa</i> Madagascar	living coll., M. Czako, Univ. South Carolina, USA	MC3	KM521415	KM521343	KM510305
<i>D. trichocarpa</i> Madagascar	living coll., M. Czako, Univ. South Carolina, USA	MC7	KM521416	KM521344	KM510306
<i>D. trichocarpa</i> Madagascar	Service Forestier de Madagascar	L:21658	AB828662	-	-
<i>D. tucurensis</i> Honduras	Jiao	SJRW33749	KU743999	KU744000	-
<i>D. velutina</i> Bangladesh	Huq & Mia	L10336	KM521417	KM521335	KM510296
<i>D. velutina</i> Indonesia	Argent & Wilkie	E941	KM521418	KM521345	KM510307
<i>D. velutina</i> Laos	Svengsuksa	L334	KM521420	KM521347	KM510309
<i>D. velutina</i> Laos	Newman et al.	E302	-	KM521346	KM510308
<i>D. villosa</i> Brazil	Lemos Filho	J.P. Lemos Filho	EF451068	-	-
<i>D. yunnanensis</i> China	Hartvig Larsen	K40652			KM458233
<i>Aeschynomene elaphroxylon</i> Ethiopia	Clemence Chaintreuil	ILRI010590	KT821157	KT821189	-
<i>Aeschynomene purpusii</i> Mexico	Lavin	Lavin 5833	-	AF270870	-
<i>Aeschynomene uniflora</i> Madagascar	Randriambanona Herizo	LSTM318	KT821173	KT821211	-
<i>Aeschynomene viscidula</i> Brazil	Cardoso	CIAT 8253	-	KX687567	-
<i>Diphysa ormocarpoides</i> Mexico	Torres	Torres C. 997	AF068169	AF203601	-
<i>Machaerium lunatum</i> USA	living coll., M. Czako, Univ. South Carolina, USA	MC33	KM521421	KM521425	KM510313
<i>Ormocarpopsis itremoensis</i> Madagascar	Du Puy	DuPuy 2363	AF068149	AF203567	-
<i>Pterocarpus indicus</i>	Henderson	Henderson s.n. (NY)	AF269177	AF142691	-
<i>Tipuana tipu</i> Bolivia	Hughes, C.E.	Hughes 2454	KF436436	KF436446	KF436476
<i>Styphnolobium japonicum</i> China	Dong, S.L.	Q636	MH703335	MH660034	MH658564
<i>Pickeringia montana</i> China	Moran, R.	Moran.r.13982	MF444194	MF444198	-
<i>Cercis occidentalis</i>	Wojciechowski, M.F.	Wojciechowski 873	-	AY386853	-
<i>Polygala californica</i>	Wojciechowski, M.F. and Steele	Wojciechowski 887	-	AY386842	-

Table S2. Nucleotide substitution models selected using jModelTest under the Aikake Information Criterion (AIC) for each DNA region.

Data subset	Best model	DNA region
1	TVM+G	<i>rbcL</i>
2	SYM+G	<i>matK</i>
3	GTR+I+G	ITS
4	GTR+I+G	Combined dataset

Table S3. Likelihood (LnL) and Akaike information criterion (AIC) scores from each of the models tested in BioGeoBEARS implemented in RASP v.4.2 for the Ancestral area estimations analyses. The best model is highlighted in bold.

Model	LnL	Numparams	d	e	AICc	AICc_wt
DEC	150.4	2	0.0063	0.0028	304.9	1
DIVALIKE	159.9	2	0.0078	0.0017	323.8	7.90E-05
BAYAREALIKE	155.8	2	0.0029	0.046	315.7	0.0044