

Supplementary Table 1 - Systematics and general distribution of subfamily Dipterocarpoideae (Ashton 1982, Dayanandan et al. 1999, Ashton 2004; www.plantsoftheworldonline.org).

Subfamily	Tribes	Genera	No. of species	Distribution(s)
Dipterocarpoideae	Dipterocarpeae	<i>Dipterocarpus</i>	65	Sri Lanka to the Philippines, Borneo and Sumbawa
		<i>Anisoptera</i>	10	Bangladesh and Indo-China to New Guinea
		<i>Upuna</i>	1	Borneo
		<i>Cotylelobium</i>	5	Sri Lanka, Peninsular Thailand, Malaysia, Sumatra and Borneo
		<i>Vatica</i>	77	Sri Lanka to New Guinea
		<i>Stemonoporus</i>	26	Sri Lanka
		<i>Vateria</i>	3	Southern India and Sri Lanka
		<i>Vateriopsis</i>	1	Seychelles
	Shoreae	<i>Dryobalanops</i>	7	Peninsular Malaysia, Sumatra and Borneo
		<i>Neobalanocarpus</i>	1	Peninsular Malaysia and extreme south-east Peninsular Thailand
		<i>Hopea</i>	112	Sri Lanka to New Guinea
		<i>Shorea</i>	189	Indo-China to the Philippines
		<i>Parashorea</i>	13	Indo-Burma to Sumatra, Borneo and the Philippines

Supplementary Table 2 - Data on variables for 50 species w.r.t. both the marker types.

Sl. no.	Species	Marker	Num ber of loci	Measures of genetic variation		Species characteristics			References
				N_A	H_E	Geographical range	Vertical stratification	IUCN red list status	
1.	<i>D. alatus</i>	SSR	9	2.20	0.234	1	2	3	Tam et al. 2014, Vu et al. 2019
2.	<i>D. costatus</i>	SSR	9	2.30	0.151	1	2	3	Duc et al. 2016, Vu et al. 2019
3.	<i>D. crinitus</i>	SSR	7	6.60	0.673	1	1	3	Harata et al. 2012
4.	<i>D. dyer</i>	SSR	9	3.85	0.604	2	1	4	Tam et al. 2019, Nguyen et al. 2020
5.	<i>D. globosus</i>	SSR	6	28.7	0.843	3	1	1	Harata et al. 2012
6.	<i>D. grandiflorus</i>	SSR	6	12.49	0.683	1	2	4	Kettle et al. 2011, Morais et al. 2015
7.	<i>D. littoralis</i>	SSR	10	3.27	0.432	3	1	5	Dwiyanti et al. 2014b
8.	<i>D. tempehes</i>	SSR	10	10.30	0.777	2	1	4	Isagi et al. 2002
9.	<i>D. aromatica</i>	SSR	7.8	6.82	0.637	1	2	3	Lim et al. 2002, Nanami et al. 2007, Harata et al. 2012, Dwiyanti et al. 2014b, Harada et al. 2018
		RAPD	10	1.68	0.191				Ritonga et al. 2018
10.	<i>D. beccarii</i>	SSR	7	3.70	0.404	2	1	4	Harada et al. 2018
11.	<i>D. lanceolata</i>	SSR	8	6.80	0.601	2	1	1	Harata et al. 2012
12.	<i>H. bilitonensis</i>	SSR	14	4.65	0.604	3	3	5	Lee et al. 2004a
13.	<i>H. chinensis</i>	SSR	9	2.80	0.398	3	3	5	Trang and Triest 2016
		ISSR	10	1.68	0.337				Tang et al. 2015
14.	<i>H. dryobalanoides</i>	SSR	5	5.6	0.678	1	1	1	Takeuchi et al. 2004
15.	<i>H. hainanensis</i>	SSR	12	2.46	0.424	3	3	4	Wang et al. 2020a
16.	<i>H. odorata</i>	SSR	9	2.70	0.356	1	2	3	Nguyen et al. 2014
17.	<i>H. reticulata</i>	SSR	7	3.42	0.533	3	3	5	Wang et al. 2020b

18.	<i>N. heimii</i>	SSR	6	11.16	0.793	2	1	4	Iwata et al. 2000,
19.	<i>P. malaanonan</i>	SSR	6	8.56	0.631	1	1	1	Abasolo et al. 2009, Ang et al. 2016
20.	<i>P. tomentella</i>	SSR	6	8.41	0.580	2	1	1	Kettle et al. 2011, Morais et al. 2015
21.	<i>S. acuminata</i>	SSR	4	6.75	0.63	1	1	1	Takeuchi et al. 2004 Cao et al. 2009
		AFLP	42	NA	0.1				
22.	<i>S. acuminatissima</i>	SSR	8	7.245	0.459	3	1	3	Morais et al. 2015
23.	<i>S. acuta</i>	SSR	7	14.1	0.806	3	1	1	Harata et al. 2012
24.	<i>S. amplexicaulis</i>	SSR	10	11.5	0.739	2	1	2	Harata et al. 2012
25.	<i>S. argentifolia</i>	SSR	8	8.12	0.694	2	2	1	Morais et al. 2015
26.	<i>S. balangeran</i>	RAPD	42	1.74	0.125	2	2	3	Indriani et al. 2019
27.	<i>S. beccariana</i>	SSR	10	18	0.792	2	1	1	Harata et al. 2012
28.	<i>S. blumutensis</i>	AFLP	53	NA	0.165	3	2	5	Cao et al. 2009
29.	<i>S. cordifolia</i>	SSR	7	12	0.723	3	2	5	Stacy et al. 2001
30.	<i>S. curtisii</i>	SSR	9.6	8.83	0.650	1	1	1	Ujino et al. 1998, Ng et al. 2006, Harata et al. 2012
31.	<i>S. dasyphylla</i>	AFLP	47	NA	0.164	2	1	4	Cao et al. 2009
32.	<i>S. gibbosa</i>	SSR	10	9.3	0.622	1	1	5	Morais et al. 2015
33.	<i>S. guiso</i>	SSR	6	6.5	0.747	1	1	3	Tinio et al. 2014
34.	<i>S. javanica</i>	SSR	7	2.45	0.437	3	2	4	Rachmat et al. 2012
35.	<i>S. johorensis</i>	AFLP	47	NA	0.115	1	1	5	Cao et al. 2009
36.	<i>S. laevis</i>	SSR	10	4.6	0.518	1	1	3	Masuda et al. 2010
37.	<i>S. leprosula</i>	SSR	11.5	10.	0.748	1	1	2	Lee et al. 2004b, Ng et al. 2004, Ng et al. 2006, Ang et al. 2016
		AFLP	NA	NA	0.153				
38.	<i>S. macroptera</i>	SSR	5	10.9	0.715	1	1	1	Ng et al. 2006
		AFLP	45	NA	0.155	1	1	1	Cao et al. 2009
39.	<i>S. maxwelliana</i>	SSR	12	6.7	0.692	1	1	4	Masuda et al. 2010
40.	<i>S. obtusa</i>	SSR	5	4.68	0.663	1	2	2	Senakun et al. 2011

41.	<i>S. ovalis</i> ssp. <i>sericea</i>	SSR	7	8.9	0.643	1	2	5	Ng et al. 2004
42.	<i>S. ovata</i>	SSR	7	10.4	0.774	1	2	4	Harata et al. 2012
43.	<i>S. palembanica</i>	AFLP	52	NA	0.149	1	2	5	Cao et al. 2009
44.	<i>S. parvifolia</i>	SSR	10	11.07	0.719	1	1	1	Lee et al. 2004, Takeuchi et al. 2004, Harata et al. 2012
		AFLP	NA	NA	0.132				Cao et al. 2006, Cao et al. 2009
45.	<i>S. platyclados</i>	SSR	12	7.58	0.697	1	2	4	Ng et al. 2013, Muhammad et al. 2016, Ng et al. 2019
		AFLP	56	NA	0.144				Cao et al. 2009
46.	<i>S. robusta</i>	SSR	4.5	9.16	0.687	1	2	1	Pandey and Geburek 2009, Pandey and Geburek 2010
		ISSR	16	1.79	0.234				Surabhi et al. 2017
47.	<i>S. smithiana</i>	SSR	8	11.685	0.679	2	1	3	Morais et al. 2015
48.	<i>S. xanthophylla</i>	SSR	9	6.96	0.590	2	2	2	Kettle et al. 2011, Morais et al. 2015
49.	<i>V. indica</i>	SSR	12	7.25	0.675	3	2	3	Ismail et al. 2013
		SSR	12	6.94	0.713				Guo et al. 2017
50.	<i>V. mangachapoi</i>	RAPD	20	1.69	0.219	1	2	3	Zhang et al. 2012
		AFLP	10	1.29	0.196				Zhang et al. 2012

^a Data on all the variables were obtained for the 50 taxa listed above. Two variables describe genetic variation: N_A = Mean number of alleles per locus and H_E = Expected heterozygosity.

^b Categories for each species characteristic are indicated by numbers. Geographical Range: 1=Widespread, 2=Regional, 3=Localised; Vertical Stratification: 1=Emergent, 2=Canopy, 3=Sub-canopy; IUCN Red List Status: 1=Least Concern, 2=Near-Threatened, 3=Vulnerable, 4=Endangered, 5=Critically Endangered.

^c NA: Not Applicable (Data Deficient).