

Sampling Strategy and Potential Utility of Indels for DNA Barcoding of Closely Related Plant Species: A Case Study in *Taxus*

Supplementary Information

Table S1. List of *Taxus* samples included in this study, voucher information, GenBank accession numbers, and herbarium acronym.

Lineage	Sample code	<i>matK</i>	<i>trnL-trnF</i>	<i>trnH-psbA</i>	ITS	Voucher specimen	Herbarium
Hengduan type	BM10	HM590987	HM591124	HM591078	HM590944	GM-24171	KUN/E
	BM25	JX174662	JX188601	JX188478	JX188542	GM-24186	KUN/E
	LG1	JX174663	JX188602	JX188479	JX188543	GM-24192	KUN/E
	LG15	HM590988	HM591125	HM591079	HM590945	GM-24201	KUN/E
	LG25	JX174664	JX188603	JX188480	JX188544	GM-24216	KUN/E
	LJ2	JX174665	EU052221	JX188481	JX188545	GM-2433	KUN/E
	LJ10	HM590986	HM591123	HM591077	HM590943	GM-2441	KUN/E
	LJ25	JX174666	JX188604	JX188482	JX188546	GM-2456	KUN/E
	YY1	JX174667	JX188605	JX188483	JX188547	GF-040911-29-1	KUN
	YY5	HM590989	HM591126	HM591080	HM590946	GF-040911-29-5	KUN
YY10	JX174668	JX188606	JX188484	JX188548	GF-040911-29-10	KUN	
Qinling type	HL1	JX174669	JX188607	JX188485	JX188549	LJ-05-1024	KUN/E
	HL13	HM591005	HM591142	HM591096	HM590962	LJ-05-1024	KUN/E
	HL29	JX174670	JX188608	JX188486	JX188550	LJ-05-1052	KUN/E
	SL3	JX174672	JX188610	JX188488	JX188552	LJ-05-1055	KUN/E
	SL10	HM591006	HM591143	HM591097	HM590963	LJ-05-1062	KUN/E
	SL24	JX174671	JX188609	JX188487	JX188551	LJ-05-1076	KUN/E
	TB1	JX174673	JX188611	JX188489	JX188553	MMO 05-677	KUN/E
	TB4	JX174674	JX188612	JX188490	JX188554	MMO 05-680	KUN/E
TB14	HM591004	HM591141	HM591095	HM590961	MMO 05-694	KUN/E	
<i>Taxus baccata</i>	Bat1	HM591019	EF680264	HM591113	EF680244	Fior S 1	E
	Bat11	JX174675	JX188613	JX188491	JX188555	Fior S 11	E
	Bat21	JX174676	JX188614	JX188492	JX188556	Fior S 21	E
	EU1	JX174677	JX188615	JX188493	JX188557	20010206A	E
	EU2	HM591017	EF680268	HM591111	EF680248	Aberlady4	E
	EU3	JX174678	EF680267	JX188494	EF680247	AA-442-91	E
	IR1	JX174679	JX188616	JX188495	JX188558	M. Zarrei-476	E
	IR2	HM591021	HM591155	HM591115	HM590977	M. Zarrei-477	E
	IR3	JX174680	EF680269	JX188496	EF680249	M. Zarrei-478	E
	PO5	JX174682	EF680265	JX188498	EF680245	Moncao-5	E
	PO15	HM591018	HM591154	HM591112	HM590976	Moncao-15	E
	PO25	JX174681	JX188617	JX188497	JX188559	Moncao-25	E

	TU8	HM591020	EF680266	HM591114	EF680246	AAD 11812-8	E
	TU24	JX174683	JX188618	JX188499	JX188560	AAD 12043-3	E
<i>T. chinensis</i>	CG2	HM590991	HM591128	HM591082	HM590948	MMO 05-597	KUN/E
	CG24	JX174684	JX188619	JX188500	JX188561	MMO 05-624	KUN/E
	CG27	JX174685	JX188620	JX188501	JX188562	MMO 05-627	KUN/E
	SN1	JX174686	JX188621	JX188502	JX188563	MMO 05-488	KUN/E
	SN5	JX174687	JX188622	JX188503	JX188564	MMO 05-504	KUN/E
	SN8	HM590992	HM591129	HM591083	HM590949	MMO 05-507	KUN/E
	SP4	JX174688	JX188623	JX188504	JX188565	LJ-05-996	KUN/E
	SP7	JX174689	JX188624	JX188505	JX188566	LJ-05-999	KUN/E
	SP21	HM590990	HM591127	HM591081	HM590947	LJ-05-999	KUN/E
<i>T. cuspidata</i>	JL34	JX174690	JX188625	JX188506	JX188567	LJM-34	KUN/E
	JL48	HM591009	HM591147	HM591103	HM590969	LJM-48	KUN/E
	JP1	JX174691	JX188626	JX188507	JX188568		KUN
	JP13	HM591011	HM591149	HM591105	HM590971	Kokubugata-6972	KUN
	K10	JX174692	JX188627	JX188508	JX188569	WLS-10	KUN
	K19	HM591010	HM591148	HM591104	HM590970	WLS-19	KUN
<i>T. fuana</i>	GL15	HM591016	HM591153	HM591110	HM590975	GLM-081628	KUN
	GL19	JX174693	JX188628	JX188509	JX188570	GLM-081632	KUN
	GL26	JX174694	JX188629	JX188510	JX188571	GLM-081639	KUN
	IN70	JX174695	JX188630	JX188511	JX188572	Yuhy-70	KUN
	IN74	HM591015	HM591152	HM591109	HM590974	Yuhy-74	KUN
	IN87	JX174696	JX188631	JX188512	JX188573	Yuhy-84	KUN
	KD15	HM591014	HM591151	HM591108	HM590973	Amin-25102	KUN
	KN8	JX174697	JX188632	JX188513	JX188574	Amin-25068	KUN
	KV18	HM591012	EF680261	HM591106	EF680241	Amin-25332	KUN
	SW4	JX174699	JX188633	JX188515	JX188575	Amin-25229	KUN
	SW12	JX174698	EF680260	JX188514	EF680240	Amin-25237	KUN
	SW19	HM591013	HM591150	HM591107	HM590972	Amin-25244	KUN
<i>T. mairei</i>	FQ1	JX174700	JX188634	JX188516	JX188576	ZHXM0506141	KUN
	FQ12	HM591002	HM591139	HM591093	HM590959	ZHXM0506152	KUN
	FQ28	JX174701	JX188635	JX188517	JX188577	ZHXM0506168	KUN
	GJ12	HM591001	HM591138	HM591092	HM590958	GLM-05971	KUN
	GJ21	JX174702	JX188636	JX188518	JX188578	GLM 05-980	KUN
	GJ30	JX174703	JX188637	JX188519	JX188579	GLM 05-989	KUN
	LA1	HM591003	HM591140	HM591094	HM590960	ZHXM050691	KUN
	LA4	JX174705	EU052228	JX188521	JX188581	ZHXM050694	KUN
	LA16	JX174704	JX188638	JX188520	JX188580	ZHXM0506106	KUN
	LCH10	HM591000	HM591137	HM591091	HM590957	Zeng7-10	KUN
	LCH28	JX174706	JX188639	JX188522	JX188582	Zeng7-28	KUN
	WX10	HM590999	HM591136	HM591090	HM590956	GLM-07623	KUN
<i>T. wallichiana</i>	CN2	JX174708	JX188641	JX188524	JX188584	GLM-081810	KUN

CN11	JX174707	JX188640	JX188523	JX188583	GLM-081819	KUN	
CN20	HM590984	HM591121	HM591075	HM590941	GLM-081828	KUN	
CY13	JX174709	JX188642	JX188525	JX188585	GLM-082139	KUN	
CY23	HM590978	HM591116	HM591069	HM590936	GLM-2149	KUN	
CY33	JX174710	JX188643	JX188526	JX188586	GLM-082159	KUN	
GS1	HM590982	EF680273	HM591073	EF680253	GLM-2301	KUN	
GS20	JX174711	EU052219	JX188527	JX188587	GLM-2334	KUN	
JD1	HM590980	HM591118	HM591071	HM590938	GM-24222	KUN	
JD7	JX174713	EU052218	JX188529	JX188588	GM-24228	KUN	
JD22	JX174712	EU052217	JX188528	JX188589	GM-24243	KUN	
JZ8	HM590981	HM591119	HM591072	HM590939	LiuJ-09228	KUN	
JZ9	JX174714	JX188644	JX188530	JX188590	LiuJ-09229	KUN	
MA1	HM590979	HM591117	HM591070	HM590937	GLM-06257	KUN/E	
MA5	JX174715	JX188645	JX188531	JX188591	GLM-06261	KUN/E	
MA8	JX174716	JX188646	JX188532	JX188592	GLM-06314	KUN/E	
ND4	HM590985	HM591122	HM591076	HM590942	NEP001-0364	E	
ND14	JX174717	EF680275	JX188533	EF680255	NEP014	E	
ND28	JX174718	JX188647	JX188534	JX188593	NEP028	E	
XL5	HM590983	HM591120	HM591074	HM590940	LJ-07035	KUN	
XL12	JX174719	JX188648	JX188535	JX188594	LJ-07042	KUN	
XL23	JX174720	JX188649	JX188536	JX188595	LJ-07053	KUN	
Tonkin type	AL1	HM590998	HM591135	HM591087	HM590953	GLM-06001	KUN
	AL2	JX174721	JX188650	JX188537	JX188596	GLM-06002	KUN/E
	AL3	JX174722	JX188651	JX188538	JX188597	GLM-06003	KUN/E
	NV1	HM590997	HM591133	HM591089	HM590955	NVSDE82	KUN/E
	NV8	JX174723	JX188652	JX188539	JX188598	NVSDE95	KUN/E
	SC1	HM590996	HM591134	HM591088	HM590954	GLM-2357	KUN/E
	SC17	JX174724	JX188653	JX188540	JX188599	GLM-2376	KUN/E
	SC23	JX174725	EU052214	JX188541	JX188600	GLM-2382	KUN/E

Note, their lineages names, locality are same to Liu *et al.* [29].

Table S2. Mean within population distance for four regions studied in present work.

Population code	Regions			
	<i>matK</i>	<i>trnL-trnF</i>	<i>trnH-psbA</i>	ITS
LG	0.00000	0.00000	0.00000	0.00000
YY	0.00000	0.00000	0.00000	0.00000
LJ	0.00000	0.00000	0.00000	0.00059
BM	0.00000	0.00000	0.00000	0.00088
HL	0.00000	0.00000	0.00125	0.00000
SL	0.00000	0.00000	0.00125	0.00000
TB	0.00000	0.00000	0.00125	0.00000
BAT	0.00000	0.00000	0.00000	0.00000
EU	0.00000	0.00082	0.00000	0.00000

IR	0.00000	0.00082	0.00000	0.00234
PO	0.00000	0.00000	0.00000	0.00000
TU	0.00000	0.00000	0.00000	0.00000
CG	0.00000	0.00000	0.00000	0.00059
SN	0.00000	0.00000	0.00000	0.00000
SP	0.00000	0.00000	0.00000	0.00410
JL	0.00000	0.00000	0.00000	0.00000
JP	0.00000	0.00000	0.00000	0.00000
K	0.00000	0.00000	0.00000	0.00000
GL	0.00043	0.00000	0.00251	0.00000
IN	0.00000	0.00000	0.00000	0.00000
KD	0.00000	0.00000	0.00188	0.00000
SW	0.00000	0.00166	0.00000	0.00000
FQ	0.00000	0.00000	0.00000	0.00147
GJ	0.00000	0.00082	0.00000	0.00059
LA	0.00000	0.00083	0.00000	0.00000
LCH	0.00000	0.00123	0.00000	0.00088
AL	0.00000	0.00000	0.00000	0.00000
NV	0.00000	0.00000	0.00000	0.00000
SC	0.00000	0.00000	0.00000	0.00000
CN	0.00000	0.00081	0.00000	0.00029
CY	0.00000	0.00000	0.00242	0.00059
GS	0.00000	0.00000	0.00121	0.00000
JD	0.00000	0.00163	0.00000	0.00000
JZ	0.00000	0.00000	0.00000	0.00000
MA	0.00000	0.00080	0.00000	0.00000
ND	0.00000	0.00081	0.00260	0.00000
XL	0.00000	0.00082	0.00000	0.00059
WX	NC	NC	NC	NC
KV	NC	NC	NC	NC

Note: n.c., not calculated.

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