forests

MDPI

Supplementary Data

Early Field Performance and Genetic Variation of *Dalbergia tonkinensis*, a Valuable Rosewood in Vietnam

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Supplementary Table S1. Number of mother trees in each province according to location

Provenance	Natural forest	City park	Temple garden	Streetscape	Office courtyard	Total
Bac Ninh	-	-	8	-	-	8
Gia Lai	1	2	-	2	2	7
Hanoi	-	6	11	2	-	19
Hung Yen	-	-	7	-	-	7
Lang Son	2	-	-	2	5	9
Nghe An	3	-	-	3	1	7
Vinh Phuc	1	-	-	7	4	12
Total	7	8	26	16	12	69

Supplementary Table S2. Physical and chemical properties of soil in the trials. Values are means (n = 9 ± SE)

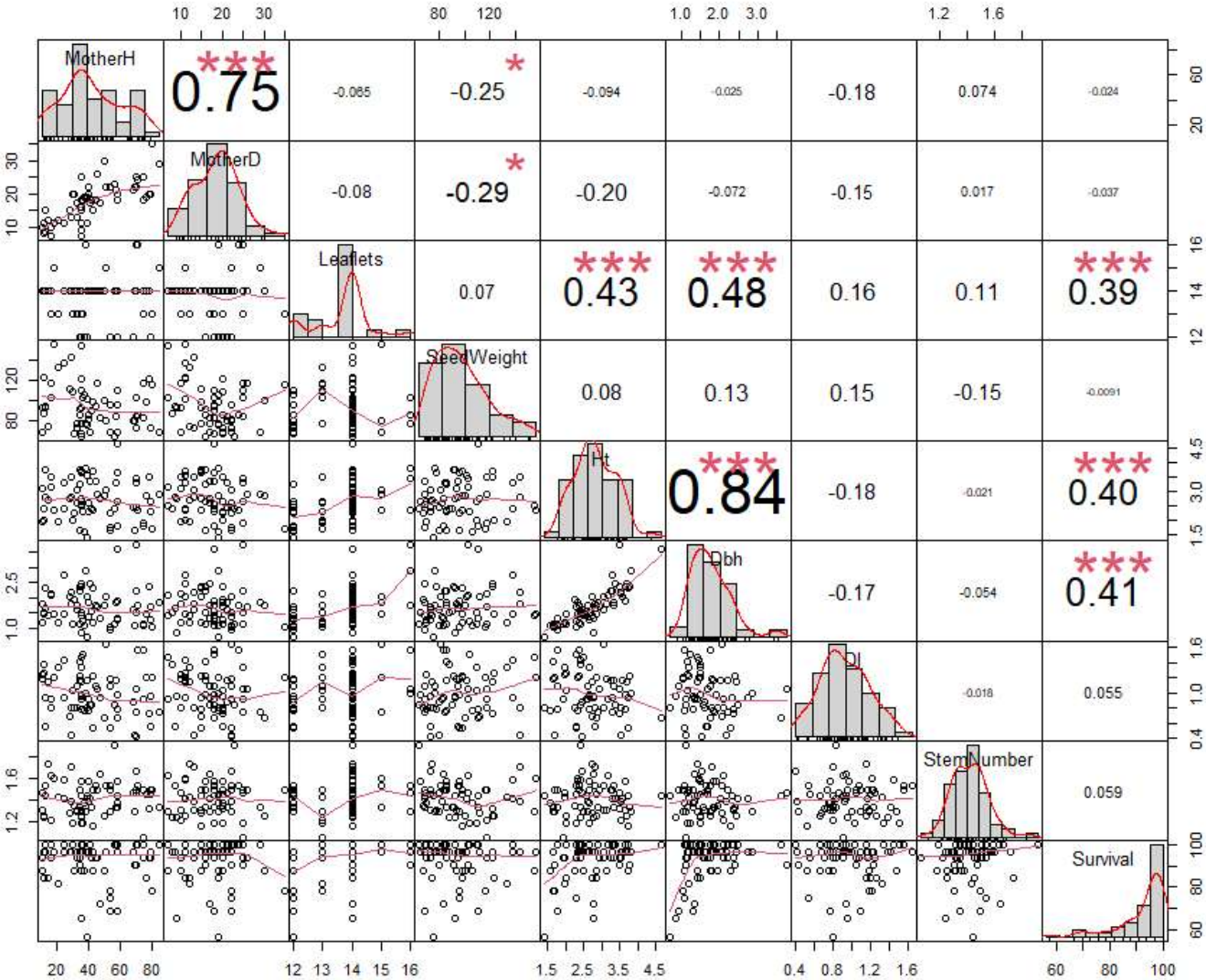
Soil property	Method	Site	
		Tan Son	Doan Hung
pH_{KCl}	1:5 soil:KCl	3.47±0.061	4.92±0.058
Oganic (C) (%)	Walkley-Black	1.05±0.017	2.86±0.021
N total (%)	Kjeldahl	0.11±0.005	0.18±0.006
P_2O_5 total (%)	Ammonium molybdate	0.12±0.001	0.56±0.002
Available P (mg/100 g)	Bray II	1.91±0.011	3.68±0.016
K_2O total (%)	Flame photometer	0.34±0.005	0.48±0.005
Silt		28.26±2.161	26.22±2.352
Clay		23.21±2.233	25.30±2.141
Sand		48.16±3.992	48.48±4.016

Supplementary Table S3. Growth, number of stems and disease index of the 12 best performing *Dalbergia tonkinensis* families in Tan Son. Different lowercase letters in a column indicate a significant difference according to DMRT at $p < 0.05$

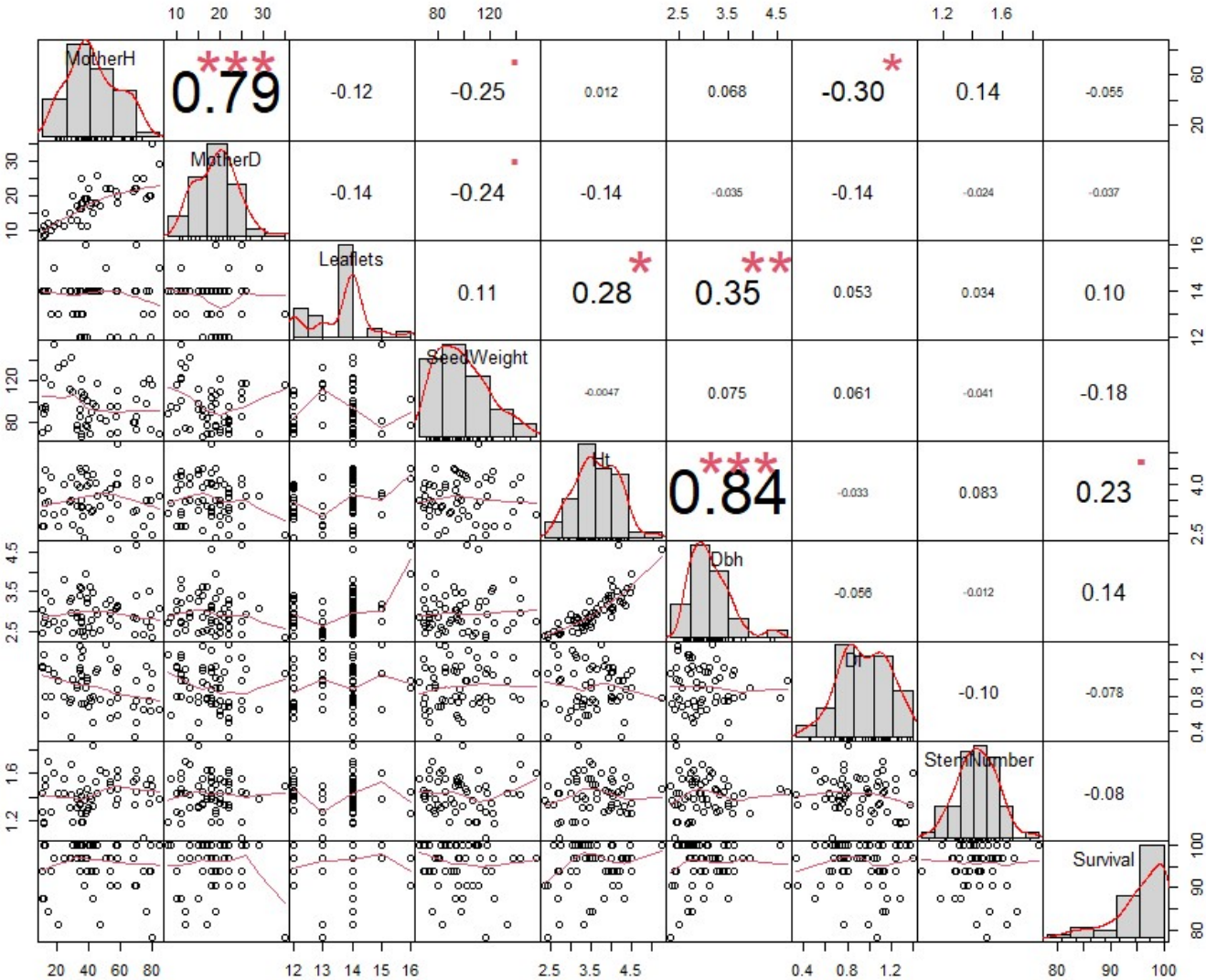
Family	Provenance	Height (m)	Diameter (cm)	Disease index	Number of stem	Survival (%)
DT66	Vinh Phuc	4.64[a]	3.61[a]	0.66	1.44	100.0[a]
DT32	Hanoi	3.81[b]	2.87[b]	1.00	1.30	96.9[ab]
DT68	Vinh Phuc	3.76[b]	2.39[c]	1.23	1.34	90.6[b]
DT63	Nghe An	3.74[b]	2.33[c]	0.94	1.44	100.0[a]
DT1	Bac Ninh	3.73[b]	2.31[c]	0.53	1.17	87.5[bc]
DT5	Bac Ninh	3.71[b]	2.45[c]	1.15	1.26	96.9[ab]
DT39	Hanoi	3.67[b]	2.36[c]	0.78	1.31	100.0[a]
DT41	Hung Yen	3.66[b]	1.91[d]	0.97	1.57	96.9[ab]
DT3	Bac Ninh	3.58[bc]	2.04[cd]	1.17	1.41	96.9[ab]
DT13	Gia Lai	3.53[bc]	2.12[cd]	0.80	1.22	93.8[b]
DT9	Gia Lai	3.53[bc]	2.18[cd]	0.43	1.39	96.9[ab]
DT2	Bac Ninh	3.51[bc]	2.37[c]	0.72	1.32	93.8[b]
Mean		3.74	2.41	0.87	1.35	95.9
F value		<0.001	<0.001	0.178	0.361	<0.001
Trial mean		2.72	1.71	0.99	1.42	92.4

Supplementary Table S4. Growth, number of stems and disease index of the 12 best performing *Dalbergia tonkinensis* families in Doan Hung. Different lowercase letters in a column indicate a significant difference according to DMRT at $p < 0.05$

Family	Provenance	Height (m)	Diameter (cm)	Disease index	Number of stem	Survival (%)
DT66	Vinh Phuc	5.24[a]	4.56[a]	0.78	1.47	100.0[a]
DT68	Vinh Phuc	4.51[b]	3.62[bc]	1.10	1.35	93.8[b]
DT32	Hanoi	4.49[b]	3.94[b]	0.91	1.27	96.9[ab]
DT63	Nghe An	4.45[b]	3.49[c]	0.81	1.50	100.0[a]
DT5	Bac Ninh	4.39[b]	3.59[c]	1.05	1.26	96.9[ab]
DT41	Hung Yen	4.36[b]	3.13[d]	0.88	1.57	96.9[ab]
DT1	Bac Ninh	4.31[b]	3.49[c]	0.50	1.32	87.5[bc]
DT3	Bac Ninh	4.28[b]	3.23[cd]	0.98	1.47	96.9[ab]
DT9	Gia Lai	4.23[b]	3.33[cd]	0.33	1.42	96.9[ab]
DT13	Gia Lai	4.21[b]	3.26[cd]	0.81	1.28	93.8[b]
DT30	Hanoi	4.17[b]	4.69[a]	0.99	1.45	90.6[b]
DT2	Bac Ninh	4.13[b]	3.50[c]	0.75	1.35	93.8[b]
Mean		4.40	3.65	0.82	1.39	95.3
F value		<0.001	<0.001	0.190	0.260	<0.001
Trial mean		3.55	3.01	0.91	1.43	95.16



Supplementary Figure S1. Correlation analysis of the pairwise interaction between characteristics of mother trees (Ht, Dbh, leaflets, 1000 seed-weight) and trial factors (Ht, Dbh, DI, number of stems, survival) in Tan Son, where * indicates $p < 0.05$ and *** indicates $p < 0.001$



Supplementary Figure S2. Correlation analysis of the pairwise interaction between characteristics of mother trees (Ht, Dbh, leaflets, 1000 seed-weight) and trial factors (Ht, Dbh, DI, number of stems, survival) in Doan Hung, where * indicates $p < 0.05$, ** indicates $p < 0.01$ and *** indicates $p < 0.001$