Table S1: List of selected species with their corresponding families, vegetation strata, and IVI values recorded in the study

Species	Species ID	Family	Stratum	IVI
1. Anisophyllea cinnamomoides (Gardner & Champ.) Alston	ANISCI	Rhizophoraceae	Canopy	1.33
2. Cullenia ceylanica (Gardner) K. Schum.	CULLCE	Bombacaceae	Sub canopy	4.57
3. Cullenia rosayroana Kosterm.	CULLRO	Bombacaceae	Sub canopy	1.26
4. Garcinia hermonii Kosterm.	GARCHE	Clusiaceae	Understory	3.13
5. Humboldtia laurifolia Vahl	HUMBLA	Fabaceae	Understory	4.19
6. Mesua ferrea L.	MESUFE	Clusiaceae	Canopy	1.46
7. Mesua nagassarium	MESUNA	Clusiaceae	Canopy	7.22
8. Myristica dactyloides Gaertn.	MYRIDA	Myristicaceae	Sub canopy	2.00
9. Palaquium canaliculatum (Thwaites) Engl.	PALACA	Sapotaceae	Sub canopy	1.31
10. Palaquium petiolare (Thwaites) Engl.	PALAPE	Sapotaceae	Canopy	1.68
11. Shorea affinis (Thwaites) P.S.Ashton	SHORAF	Dipterocapaceae	Canopy	1.81
12. Shorea cordifolia (Thwaites) P.S.Ashton	SHORCR	Dipterocapaceae	Sub canopy	1.51
13. Shorea disticha (Thwaites) P.S.Ashton	SHORDI	Dipterocapaceae	Canopy	3.00
14. Shorea stipulrais Thwaites	SHORST	Dipterocapaceae	Canopy	1.50
15. Xylopia championii Hook.f. & Thomson	XYLOCH	Annonaceae	Understory	1.31

Table S2. Species-specific linear model results for six leaf traits across ridge and valley habitats. For each species, the estimates represent the mean trait values in the valley habitat and the corresponding effect of the ridge habitat. Significant species-specific patterns of intraspecific trait variation across habitats are highlighted.

Leaf Trait	Species ID	Valley (intercept)			Ridge (relative to Valley)		
		Estimate	SE	p-value	Estimate	SE	p-value
LT	ANISCI	5.084	0.024	<0.001	-0.001	0.034	0.972
LT	CULLCE	5.045	0.013	<0.001	-0.021	0.019	0.265
LT	CULLRO	5.362	0.015	<0.001	0.020	0.019	0.300
LT	GARCHE	5.998	0.012	<0.001	0.023	0.018	0.187
LT	HUMBLA	5.096	0.024	<0.001	0.024	0.035	0.489
LT	MESUFE	5.358	0.015	<0.001	0.021	0.021	0.329
LT	MESUNA	5.206	0.014	<0.001	0.036	0.020	0.079
LT	MYRIDA	5.638	0.022	<0.001	0.019	0.027	0.499
LT	PALACA	5.728	0.025	<0.001	0.038	0.030	0.214
LT	**PALAPE**	**5.314**	**0.020**	**<0.001**	**0.059**	**0.027**	**0.032**
LT	**SHORAF**	**4.867**	**0.012**	**<0.001**	**0.031**	**0.016**	**0.050**
LT	SHORCR	4.955	0.018	<0.001	0.011	0.024	0.645
LT	**SHORDI**	**5.274**	**0.019**	**<0.001**	**0.058**	**0.022**	**0.013**
LT	SHORST	5.192	0.019	<0.001	-0.004	0.027	0.871
LT	XYLOCH	5.197	0.021	<0.001	-0.003	0.030	0.928
LA	**ANISCI**	**3.943**	**0.067**	**<0.001**	**-0.557**	**0.096**	**<0.001**
LA	CULLCE	3.642	0.041	<0.001	-0.085	0.058	0.145
LA	CULLRO	4.756	0.048	<0.001	-0.088	0.061	0.159
LA	**GARCHE**	**4.432**	**0.037**	**<0.001**	**-0.384**	**0.053**	**<0.001**
LA	**HUMBLA**	**5.635**	**0.046**	**<0.001**	**-0.209**	**0.066**	**0.002**
LA	**MESUFE**	**4.953**	**0.039**	**<0.001**	**-0.293**	**0.055**	**<0.001**
LA	**MESUNA**	**3.878**	**0.035**	**<0.001**	**-0.211**	**0.051**	**<0.001**
LA	MYRIDA	4.642	0.048	<0.001	-0.080	0.059	0.183
LA	PALACA	4.274	0.134	<0.001	-0.170	0.160	0.294

LA	PALAPE	4.101	0.036	<0.001	-0.015	0.049	0.766
LA	SHORAF	2.941	0.034	<0.001	-0.066	0.045	0.147
LA	**SHORCR**	**3.989**	**0.025**	**<0.001**	**-0.218**	**0.034**	**<0.001**
LA	SHORDI	4.299	0.055	<0.001	-0.003	0.067	0.965
LA	SHORST	4.396	0.043	<0.001	-0.055	0.061	0.373
LA	XYLOCH	3.052	0.042	<0.001	-0.078	0.059	0.194
SLA	ANISCI	5.058	0.028	<0.001	0.040	0.040	0.322
SLA	CULLCE	5.071	0.021	<0.001	-0.017	0.029	0.570
SLA	CULLRO	4.656	0.018	<0.001	0.044	0.023	0.061
SLA	GARCHE	4.582	0.021	<0.001	0.006	0.030	0.846
SLA	HUMBLA	4.973	0.023	<0.001	0.006	0.032	0.857
SLA	MESUFE	4.671	0.020	<0.001	0.035	0.028	0.223
SLA	MESUNA	5.049	0.028	<0.001	-0.038	0.041	0.354
SLA	MYRIDA	4.826	0.031	<0.001	0.022	0.038	0.557
SLA	**PALACA**	**4.754**	**0.054**	**<0.001**	**0.130**	**0.064**	**0.050**
SLA	**PALAPE**	**5.152**	**0.025**	**<0.001**	**-0.217**	**0.034**	**<0.001**
SLA	**SHORAF**	**4.980**	**0.023**	**<0.001**	**0.120**	**0.030**	**<0.001**
SLA	**SHORCR**	**4.975**	**0.026**	**<0.001**	**-0.080**	**0.034**	**0.023**
SLA	SHORDI	4.700	0.023	<0.001	-0.047	0.028	0.100
SLA	**SHORST**	**4.774**	**0.022**	**<0.001**	**0.094**	**0.032**	**0.005**
SLA	**XYLOCH**	**5.243**	**0.022**	**<0.001**	**-0.069**	**0.031**	**0.030**
LDMC	ANISCI	3.698	0.016	<0.001	0.013	0.022	0.561
LDMC	CULLCE	3.738	0.016	<0.001	0.009	0.022	0.701
LDMC	**CULLRO**	**3.843**	**0.008**	**<0.001**	**-0.043**	**0.011**	**<0.001**
LDMC	**GARCHE**	**3.347**	**0.012**	**<0.001**	**-0.041**	**0.018**	**0.022**
LDMC	HUMBLA	3.653	0.013	<0.001	-0.017	0.018	0.367
LDMC	MESUFE	3.934	0.012	<0.001	0.005	0.017	0.744
LDMC	**MESUNA**	**3.877**	**0.016**	**<0.001**	**-0.048**	**0.023**	**0.046**
LDMC	MYRIDA	3.379	0.024	<0.001	-0.029	0.029	0.317

LDMC	PALACA	3.475	0.028	<0.001	-0.031	0.034	0.366
LDMC	**PALAPE**	**3.461**	**0.020**	**<0.001**	**0.159**	**0.027**	**<0.001**
LDMC	**SHORAF**	**3.861**	**0.009**	**<0.001**	**-0.109**	**0.012**	**<0.001**
LDMC	SHORCR	3.789	0.010	<0.001	-0.018	0.014	0.186
LDMC	**SHORDI**	**3.691**	**0.016**	**<0.001**	**0.043**	**0.019**	**0.026**
LDMC	SHORST	3.673	0.013	<0.001	-0.026	0.019	0.161
LDMC	XYLOCH	3.556	0.015	<0.001	0.039	0.021	0.074
LNC	**ANISCI**	**0.559**	**0.028**	**<0.001**	**0.264**	**0.039**	**<0.001**
LNC	CULLRO	0.530	0.046	<0.001	-0.065	0.059	0.288
LNC	**HUMBLA**	**0.962**	**0.036**	**<0.001**	**-0.657**	**0.051**	**<0.001**
LNC	**MESUFE**	**0.414**	**0.024**	**<0.001**	**-0.204**	**0.033**	**<0.001**
LNC	**MESUNA**	**0.443**	**0.028**	**<0.001**	**-0.085**	**0.040**	**0.041**
LNC	**PALAPE**	**0.536**	**0.022**	**<0.001**	**0.352**	**0.032**	**<0.001**
SD	**ANISCI**	**5.458**	**0.045**	**<0.001**	**-0.276**	**0.061**	**<0.001**
SD	**CULLCE**	**5.081**	**0.018**	**<0.001**	**-0.211**	**0.024**	**<0.001**
SD	GARCHE	4.468	0.025	<0.001	-0.065	0.034	0.061
SD	HUMBLA	4.863	0.026	<0.001	-0.062	0.035	0.083
SD	MESUFE	5.332	0.020	<0.001	-0.051	0.028	0.074
SD	MESUNA	4.971	0.028	<0.001	-0.060	0.037	0.118
SD	**MYRIDA**	**5.006**	**0.036**	**<0.001**	**-0.306**	**0.044**	**<0.001**
SD	**PALACA**	**4.686**	**0.037**	**<0.001**	**-0.246**	**0.047**	**<0.001**
SD	**PALAPE**	**4.517**	**0.033**	**<0.001**	**-0.257**	**0.045**	**<0.001**
SD	**SHORAF**	**4.628**	**0.021**	**<0.001**	**-0.091**	**0.028**	**0.002**
SD	SHORCR	4.904	0.028	<0.001	0.009	0.037	0.815
SD	SHORDI	4.902	0.031	<0.001	-0.024	0.041	0.556
SD	SHORST	4.954	0.031	<0.001	-0.071	0.041	0.090
SD	**XYLOCH**	**4.989**	**0.023**	**<0.001**	**-0.318**	**0.031**	**<0.001**