

Table S2. Relation between traits and PCoA axes: trait, principal component (PC), test, statistic name, statistic value and p-value

May						June					
trait	axis	test	statistic	value	p-value	trait	axis	test	statistic	value	p-value
leaf P	PC1	Kruskal-Wallis	eta2	0.202	< 0.001	leaf P	PC2	Kruskal-Wallis	eta2	0.690	< 0.001
leaf P	PC2	Kruskal-Wallis	eta2	0.749	< 0.001	leaf P	PC3	Kruskal-Wallis	eta2	0.429	< 0.001
leaf P	PC3	Kruskal-Wallis	eta2	0.330	< 0.001	leaf N	PC1	Kruskal-Wallis	eta2	0.151	< 0.001
leaf P	PC4	Kruskal-Wallis	eta2	0.104	0.003	leaf N	PC2	Kruskal-Wallis	eta2	0.883	< 0.001
leaf N	PC1	Kruskal-Wallis	eta2	0.178	< 0.001	leaf N	PC3	Kruskal-Wallis	eta2	0.547	< 0.001
leaf N	PC2	Kruskal-Wallis	eta2	0.868	< 0.001	leaf N	PC4	Kruskal-Wallis	eta2	0.067	0.016
leaf N	PC3	Kruskal-Wallis	eta2	0.520	< 0.001	Plant height	PC1	Kruskal-Wallis	eta2	0.048	0.042
leaf N	PC4	Kruskal-Wallis	eta2	0.119	0.001	Plant height	PC3	Kruskal-Wallis	eta2	0.452	< 0.001
Plant height	PC3	Kruskal-Wallis	eta2	0.386	< 0.001	Plant height	PC4	Kruskal-Wallis	eta2	0.095	0.004
Leave consistency	PC3	Linear Model	r2	0.704	< 0.001	Leave consistency	PC3	Linear Model	r2	0.546	< 0.001
Inflorescence area	PC1	Kruskal-Wallis	eta2	0.663	< 0.001	Leave consistency	PC4	Linear Model	r2	0.134	< 0.001
Inflorescence area	PC3	Kruskal-Wallis	eta2	0.409	< 0.001	Inflorescence area	PC1	Kruskal-Wallis	eta2	0.803	< 0.001
Inflorescence area	PC4	Kruskal-Wallis	eta2	0.049	0.043	Inflorescence area	PC3	Kruskal-Wallis	eta2	0.235	< 0.001
Flower shape	PC1	Kruskal-Wallis	eta2	0.717	< 0.001	Inflorescence area	PC4	Kruskal-Wallis	eta2	0.256	< 0.001
Flower shape	PC2	Kruskal-Wallis	eta2	0.123	0.001	Flower shape	PC1	Kruskal-Wallis	eta2	0.882	< 0.001
Flower shape	PC3	Kruskal-Wallis	eta2	0.114	0.002	Flower shape	PC2	Kruskal-Wallis	eta2	0.175	< 0.001
Flower shape	PC4	Kruskal-Wallis	eta2	0.491	< 0.001	Flower shape	PC3	Kruskal-Wallis	eta2	0.095	0.004
Flower color	PC1	Kruskal-Wallis	eta2	0.406	< 0.001	Flower shape	PC4	Kruskal-Wallis	eta2	0.608	< 0.001
Flower color	PC2	Kruskal-Wallis	eta2	0.178	0.001	Flower color	PC1	Kruskal-Wallis	eta2	0.735	< 0.001
Flower color	PC3	Kruskal-Wallis	eta2	0.104	0.010	Flower color	PC3	Kruskal-Wallis	eta2	0.114	0.008
Flower color	PC4	Kruskal-Wallis	eta2	0.509	< 0.001	Flower color	PC4	Kruskal-Wallis	eta2	0.776	< 0.001
Phenological	PC1	Kruskal-Wallis	eta2	0.343	< 0.001	Phenological	PC1	Kruskal-Wallis	eta2	0.594	< 0.001