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附录III 小兴安岭不同生长型18种阔叶植物叶性状相关关系的标准化主轴估计

Supplement III Standardized principal axis estimation of the correlation between leaf traits of different growth types of 18 broadleaf plants in Xiao Hinggan Mountains

指标 Index ($y-x$)	生长型 Growth type	R^2	p	截距 Intercept	斜率 Slope (95% CI)	下限 Lower limit	上限 Upper limit
P_n -LMA	草本 Herb	0.021	0.025	-6.338	-2.615	-2.964	-2.308
	灌木 Shrub	0.004	0.164	-	-	-	-
	乔木 Tree	0.249	<0.001	5.641	2.065	1.925	2.214
P_n -LDMC	草本 Herb	0.010	0.130	-	-	-	-
	灌木 Shrub	0.002	0.294	-	-	-	-
	乔木 Tree	0.078	<0.001	2.528	3.843	3.556	4.153
P_n -SPAD	草本 Herb	0.017	0.042	-6.994	5.171	4.561	5.863
	灌木 Shrub	0.110	<0.001	-4.801	3.464	3.200	3.750
	乔木 Tree	0.016	0.002	-9.200	6.231	5.752	6.751
SPAD-LDMC	草本 Herb	0.004	0.319	-	-	-	-
	灌木 Shrub	0.008	0.042	1.461	-0.269	-0.293	-0.248
	乔木 Tree	0.008	0.030	1.356	-0.617	-0.668	-0.569
SPAD-LT	草本 Herb	0.192	<0.001	0.870	0.563	0.502	0.631
	灌木 Shrub	0.004	0.133	-	-	-	-
	乔木 Tree	0.044	<0.001	1.167	0.408	0.377	0.442
SPAD-LA	草本 Herb	0.224	<0.001	1.315	0.118	0.106	0.132
	灌木 Shrub	0.002	0.359	-	-	-	-
	乔木 Tree	0.123	<0.001	1.407	0.147	0.136	0.158
LMA-LDMC	草本 Herb	0.287	<0.001	-1.817	1.220	1.096	1.357
	灌木 Shrub	0.095	<0.001	-2.227	0.501	0.462	0.542
	乔木 Tree	0.204	<0.001	-1.508	1.861	1.732	2.000
LMA-SPAD	草本 Herb	0.154	<0.001	-5.520	1.977	1.760	2.221
	灌木 Shrub	0.032	<0.001	-5.477	1.859	1.711	2.019
	乔木 Tree	0.025	<0.001	-7.188	3.018	2.787	3.269
LMA-LT	草本 Herb	0.216	<0.001	-3.800	1.113	0.995	1.245
	灌木 Shrub	0.016	0.003	-3.643	1.067	0.982	1.160
	乔木 Tree	0.392	<0.001	-3.666	1.232	1.156	1.312
LMA-LA	草本 Herb	0.270	<0.001	-2.920	0.234	0.210	0.261
	灌木 Shrub	0.009	0.023	-2.137	-0.271	-0.295	-0.249
	乔木 Tree	0.007	0.044	-1.663	-0.443	-0.48	-0.409
G_s-C_i	草本 Herb	0.286	<0.001	-31.468	12.066	10.842	13.428
	灌木 Shrub	0.406	<0.001	-23.265	8.915	8.355	9.512
	乔木 Tree	0.259	<0.001	-20.168	7.774	7.252	8.334
G_s-P_n	草本 Herb	0.467	<0.001	-1.244	0.986	0.899	1.082
	灌木 Shrub	0.673	<0.001	-1.754	1.201	1.145	1.260
	乔木 Tree	0.678	<0.001	-1.748	1.078	1.029	1.128
C_i -LDMC	草本 Herb	0.129	<0.001	2.375	-0.261	-0.293	-0.232
	灌木 Shrub	0.045	<0.001	2.582	0.126	0.116	0.136
	乔木 Tree	0.043	<0.001	2.720	0.533	0.492	0.577
C_i -SPAD	草本 Herb	0.073	<0.001	1.933	0.423	0.374	0.478
	灌木 Shrub	0.009	0.029	3.264	-0.467	-0.507	-0.429
	乔木 Tree	0.019	0.001	3.891	-0.864	-0.936	-0.798

附录III(续) Supplement III (continued)

指标 Index (y-x)	生长型 Growth type	R^2	p	截距 Intercept	斜率 Slope (95% CI)	下限 Lower limit	上限 Upper limit
C_i -LT	草本 Herb	0.018	0.037	2.301	0.238	0.210	0.270
	灌木 Shrub	0.046	<0.001	2.804	-0.268	-0.291	-0.247
	乔木 Tree	0.001	0.389	-	-	-	-
C_i -LMA	草本 Herb	0.026	0.013	1.987	-0.214	-0.242	-0.189
	灌木 Shrub	0.179	<0.001	3.141	0.251	0.233	0.271
	乔木 Tree	0.023	<0.001	3.152	0.286	0.264	0.310
C_i - P_n	草本 Herb	0.032	0.005	2.595	-0.082	-0.093	-0.072
	灌木 Shrub	0.009	0.025	2.413	0.135	0.124	0.146
	乔木 Tree	<0.001	0.690	-	-	-	-
LA-LT	草本 Herb	0.281	<0.001	-3.762	4.756	4.272	5.295
	灌木 Shrub	0.027	<0.001	-2.919	3.936	3.622	4.276
	乔木 Tree	0.107	<0.001	-1.633	2.781	2.577	3.002

C_i , 胞间CO₂浓度; G_s , 气孔导度; LA, 叶面积; LDMC, 叶干物质含量; LMA, 比叶质量; LT, 叶片厚度; P_n , 净光合速率; SPAD, 叶绿素值。-, 无数据。加粗数字代表两性状之间存在等速生长关系。

C_i , intercellular CO₂ concentration; G_s , stomatal conductance; LA, leaf area; LDMC, leaf dry matter content; LMA, leaf mass per area; LT, leaf thickness; P_n , net photosynthetic rate; SPAD, leaf chlorophyll value. -, no data. Bolded numbers indicate an isometric growth relationship between the two traits.