

Supplementary File 1 to:

Leaf physiological and structural plasticity of two *Asplenium* (Aspleniaceae) species coexisting in sun and shade conditions

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Supplementary File 1 – Factor loadings and *Species*×*Light* coordinates for the principal component analysis (PCA) carried out on the considered traits (See table 1).

The percentage of variance explained by each PC is also shown. AT = *Asplenium trichomanes*, AC = *Asplenium ceterach*. Aa – Net photosynthetic rate ($\mu\text{mol CO}_2 \text{ m}^{-2} \text{ s}^{-1}$); AbCT – Abaxial cuticle with cell wall thickness (μm); AbET – Abaxial epidermis thickness (μm); AC – *Asplenium ceterach*; AdCT – Adaxial cuticle with cell wall thickness (μm); AdET – Adaxial epidermis thickness (μm); Am – Mass based net photosynthesis ($\text{nmol CO}_2 \text{ g}^{-1} \text{ s}^{-1}$); AT – *Asplenium trichomanes*; DSt – Stomatal density (number mm^{-2}); E – Transpiration rate ($\text{mmol H}_2\text{O m}^{-2} \text{ s}^{-1}$); gs – Stomatal conductance ($\text{mol H}_2\text{O m}^{-2} \text{ s}^{-1}$); Ho – Water content (%); iWUE – Intrinsic water-use efficiency ($\mu\text{mol CO}_2 \text{ mol H}_2\text{O}^{-1}$); LEab – Abaxial epidermal cell length (μm); LEad – Adaxial epidermal cell length (μm); LL – Leaf length (cm); LMA – Leaf mass per unit of leaf area (g m^{-2}); LP – Petiole length (cm); LSt – Stomatal cell length (μm); LT – Total leaf thickness (μm); LTD – Leaf tissue density (mg cm^{-3}); MT – Mesophyll tissue thickness (μm); WEab – Abaxial epidermal cell width (μm), WEad – Adaxial epidermal cell width (μm); WL – Lamina width (cm); WSt – Stomatal cell width (μm); WUE – Water-use efficiency ($\mu\text{mol CO}_2 \text{ mmol H}_2\text{O}^{-1}$).

Variables	Variable Loadings		Species	Light	Coordinates	
	PC1 (33.13%)	PC2 (23.52%)			PC1	PC2
Aa	0.4642	0.7317	AC	Sun	4.5987	0.31555
Am	-0.2021	0.8507	AC	Sun	4.3192	-1.0574
gs	0.8289	0.01262	AC	Sun	4.2715	-1.3259
E	0.8818	0.1901	AC	Sun	3.6783	-1.5178
iWUE	-0.5045	0.5285	AC	Sun	4.4429	-0.2658
WUE	-0.833	-0.008244	AC	Sun	4.7198	0.13651
LP	-0.5371	-0.5337	AC	Sun	4.7458	-0.9261
LL	-0.8045	-0.1918	AC	Sun	4.0782	-1.2144
WL	-0.01771	0.06536	AC	Sun	3.8779	-0.2194
LMA	0.9149	-0.1684	AT	Sun	1.3273	2.5777
LTD	0.7502	0.2666	AT	Sun	0.55119	1.7542
Ho	-0.5254	-0.4825	AT	Sun	0.56859	2.192
LT	0.8615	-0.4408	AT	Sun	0.16581	2.1852
AbCT	0.5389	0.3556	AT	Sun	0.1158	2.8908
AdCT	0.05547	0.8191	AT	Sun	0.16188	4.1811
MT	0.8343	-0.4865	AT	Sun	0.63068	3.0504
AdET	-0.1369	0.3826	AT	Sun	0.76124	5.1361
AbET	0.5348	-0.02775	AT	Sun	0.86985	4.6608
LEad	-0.359	-0.4868	AC	Shade	-1.5183	-2.0751
WEad	0.2476	-0.6611	AC	Shade	-0.6538	-1.8311

Variables	Variable Loadings		Species	Light	Coordinates	
	PC1 (33.13%)	PC2 (23.52%)			PC1	PC2
LEab	-0.8199	-0.1133	AC	Shade	-0.9231	-1.6732
WEab	-0.5005	-0.5707	AC	Shade	-0.6902	-3.7269
LSt	-0.6084	0.6469	AC	Shade	-0.4212	-2.7614
WSt	-0.3332	0.2882	AC	Shade	-0.2974	-3.2118
DSt	0.8997	-0.1217	AC	Shade	-0.2001	-3.4143
			AC	Shade	-0.6826	-2.7605
			AC	Shade	-0.3143	-2.417
			AT	Shade	-3.6339	0.7013
			AT	Shade	-4.8502	-0.381
			AT	Shade	-4.2601	0.47198
			AT	Shade	-4.5277	0.43445
			AT	Shade	-4.3079	0.39295
			AT	Shade	-3.7335	-0.384
			AT	Shade	-3.9141	-0.5311
			AT	Shade	-4.6178	0.68274
			AT	Shade	-4.3381	-0.0697