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Supplementary Table S7. Phylogenetic signal measured by Pagel's lambda (*** $p < 0.001$) obtained for each trait in each grassland habitat group. Values close to zero indicate weak phylogenetic signal, values close to 1 indicate strong phylogenetic signal. The cases of strongest signal (> 0.8) are indicated in bold.

	Dry	Mesic	Wet	Alpine
Plant height	**0.890*** **	**0.831*** **	**0.845*** **	0.671***
Leaf area	0.276***	0.395***	0.592***	**0.861*** **
Specific leaf area	**0.884*** **	0.700***	**0.826*** **	0.619***
Leaf nitrogen content	0.598***	0.620***	0.576***	0.457***
Seed mass	**0.994*** **	**0.839*** **	**0.867*** **	**0.842*** **
Lateral spread		0.697***	0.668***	
mean	0.728	0.680	0.729	0.690