

Večeřa M., Axmanová I., Chytrý M., Divíšek J., Ndiribe C., Mones G. V., Čeplová N., Aćić S., Bahn M., Bergamini A., Boenisch G., Biurrun I., Bruun H. H., Byun C., Catford J. A., Cerabolini B. E. L., Cornelissen J. H. C., Dengler J., Jansen F., Jansen S., Kattge J., Kozub Ł., Kuzemko A., Minden V., Mitchell R. M., Moeslund J. E., Mori A. S., Niinemets Ü., Ruprecht E., Rūsiņa S., Šilc H., Soudzilovskaia N. A., van Bodegom P. M., Vassilev K., Weiher E., Wright I. J. & Lososová Z. (2023) Decoupled phylogenetic and functional diversity in European grasslands. – *Preslia* 95: 413–445.

**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	<b>0.890***</b>	<b>0.831***</b>	<b>0.845***</b>	0.671***
Leaf area	0.276***	0.395***	0.592***	<b>0.861***</b>
Specific leaf area	<b>0.884***</b>	0.700***	<b>0.826***</b>	0.619***
Leaf nitrogen content	0.598***	0.620***	0.576***	0.457***
Seed mass	<b>0.994***</b>	<b>0.839***</b>	<b>0.867***</b>	<b>0.842***</b>
Lateral spread		0.697***	0.668***	
<i>mean</i>	0.728	0.680	0.729	0.690