

Table 1S. Pearson correlation between biomass accumulation (shoot, root and total biomass, g), anatomic (leaf area, LA [m²]; specific leaf area, SLA [cm² g⁻¹]; leaf area ratio, LAR [cm² g⁻¹]; leaf mass ratio, LMR [g g⁻¹]), and physiological parameters (net photosynthetic rate, P_N ; stomatal conductance g_s ; intrinsic water-use efficiency, P_N/g_s ; water-use efficiency at plant level, WUE_p [g l⁻¹]) and water relations (soil water content, SWC [ml (H₂O) in the soil] and plant water consume [l]). Blue and red color mean positive and negative significant correlation respectively and grey color means no significant correlation. * denotes significant Pearson correlation with $p < 0.0001$.

	P_N	g_s	P_N/g_s	WUE _p	SWC	Water consum	Shoot	Root	Total biomass	LA	SLA	LAR	LMR
P_N	1												
g_s	0.93*	1											
P_N/g_s	-0.87*	-0.9*	1										
WUE _p	-0.73*	-0.78*	0.77*	1									
SWC	0.75	0.69	-0.71	-0.56	1								
Water consum	0.77*	0.84*	-0.81*	-0.82*	0.67	1							
Shoot	0.69	0.71	-0.67	-0.53	0.71	0.86*	1						
Root	0.02	0.06	0.005	0.083	0.16	0.31	0.51	1					
Total biomass	0.49	0.48	-0.48	-0.34	0.56	0.75*	0.93*	0.78*	1				
LA	0.73*	0.74*	-0.69	-0.63	0.72	0.90	0.96	0.46	0.88*	1			
SLA	0.72*	0.71	-0.68	-0.72	0.70	0.81*	0.68	0.23	0.58	0.85*	1		
LAR	0.81*	0.83*	-0.76*	-0.79*	0.69	0.78*	0.67	-0.11	0.44	0.81*	0.87*	1	
LMR	0.63	0.65	-0.58	-0.59	0.43	0.45	0.42	-0.49	0.09	0.45	0.39	0.78*	1