# Supplementary Material

**Tab. S1** - Pearson's correlation coefficients between leaf traits. (*):$P<0.05$; (**):$P<0.01$.

| | $P_n$ | $g_s$ | $C_i$ | $T_r$ | WUE | $Chl_a$ | $Chl_b$ | Chl | $Chl_a/Chl_b$ | Car | Chl/Car | LL | LW | LL/LW | LA | SLA | LN | LP | LN/LP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $P_n$ | 1 | 0.796** | 0.473* | 0.749** | 0.729** | 0.603** | 0.542* | 0.598** | -0.060 | 0.479* | 0.139 | -0.439 | -0.517* | 0.341 | -0.485* | 0.577** | -0.159 | -0.097 | -0.151 |
| $g_s$ | | 1 | 0.563** | 0.598** | 0.588** | 0.493* | 0.453* | 0.489* | -0.014 | 0.339 | 0.123 | -0.185 | -0.172 | 0.083 | -0.184 | -0.065 | -0.046 | -0.084 | 0.029 |
| $C_i$ | | | 1 | 0.367 | 0.245 | 0.453* | 0.433 | 0.458* | -0.078 | 0.036 | 0.400 | -0.191 | -0.194 | 0.126 | -0.190 | -0.119 | -0.041 | -0.007 | -0.058 |
| $T_r$ | | | | 1 | 0.096 | 0.220 | 0.372 | 0.276 | -0.435 | 0.352 | 0.080 | -0.449* | -0.417 | 0.103 | -0.461* | 0.286 | -0.044 | -0.106 | -0.016 |
| WUE | | | | | 1 | 0.670** | 0.434 | 0.609** | 0.338 | 0.356 | 0.230 | -0.180 | 0.332 | 0.402 | -0.237 | 0.047 | -0.188 | -0.037 | -0.182 |
| $Chl_a$ | | | | | | 1 | 0.892** | 0.989** | -0.040 | 0.441* | 0.510* | -0.286 | 0.411 | 0.391 | -0.337 | 0.111 | 0.205 | 0.124 | -0.018 |
| $Chl_b$ | | | | | | | 1 | 0.948** | -0.481* | 0.409 | 0.501* | -0.396 | -0.453* | 0.282 | 0.428 | 0.019 | 0.283 | 0.100 | 0129 |
| Chl | | | | | | | | 1 | -0.097 | 0.799** | 0.519* | 0.236 | 0.144 | 0.050 | 0.132 | 0.429 | 0.702** | 0.481* | 0.054 |
| $Chl_a/Chl_b$ | | | | | | | | | 1 | -0.184 | -0.076 | -0.100 | -0.329 | -0.436 | 0.366 | -0.375 | 0.086 | 0.237 | 0.124 |
| Car | | | | | | | | | | 1 | -0.527* | -0.136 | -0.331 | 0.410 | -0.296 | 0.562** | 0.336 | 0.448* | -0.384 |
| Chl/Car | | | | | | | | | | | 1 | -0.192 | -0.114 | -0.031 | -0.086 | 0.450* | -0.099 | -0.272 | 0.340 |
| LL | | | | | | | | | | | | 1 | 0.851** | -0.116 | 0.942** | -0.114 | 0.249 | 0.196 | 0.121 |
| LW | | | | | | | | | | | | | 1 | -0.617** | 0.966** | -0.152 | 0.370 | 0.210 | 0.255 |
| LL/LW | | | | | | | | | | | | | | 1 | -0.413 | 0.155 | -0.340 | -0.094 | -0.311 |
| LA | | | | | | | | | | | | | | | 1 | -0.165 | 0.304 | 0.178 | 0.228 |
| SLA | | | | | | | | | | | | | | | | 1 | 0.375 | 0.585** | -0.467* |
| LN | | | | | | | | | | | | | | | | | 1 | 0.735** | 0.017 |
| LP | | | | | | | | | | | | | | | | | | 1 | -0.611** |
| LN/LP | | | | | | | | | | | | | | | | | | | 1 |