| **Correlations matrix** | | | | | | | | | | | | | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **DW** | **NPP** | **TChl** | **CRT** | **CRB** | **PRT** | **PRL** | **MDA** | **H2O2** | **SOD** | **POD** | **CAT** | **APX** | **GR** | **RAF** | **SAF** | **TF** | **SW** | **SN** |
| **DW** | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **NPP** | .929\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **TChl** | -.210 | .028 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **CRT** | .069 | .307 | .688\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **CRB** | .599\* | .416 | -.352 | -.027 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PRT** | -.145 | .006 | .722\*\* | .688\*\* | -.138 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **PRL** | .001 | -.166 | -.378 | -.229 | .676\*\* | -.316 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| **MDA** | .637\*\* | .454 | -.320 | -.156 | .839\*\* | -.122 | .627\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |
| **H2O2** | -.258 | -.401 | -.246 | -.202 | .471 | -.006 | .664\*\* | .415 | 1 |  |  |  |  |  |  |  |  |  |  |
| **SOD** | -.170 | -.188 | -.401 | -.303 | -.303 | -.654\*\* | .012 | -.377 | -.208 | 1 |  |  |  |  |  |  |  |  |  |
| **POD** | .259 | .064 | -.583\* | -.582\* | .444 | -.737\*\* | .675\*\* | .436 | .156 | .430 | 1 |  |  |  |  |  |  |  |  |
| **CAT** | .188 | .028 | -.620\* | -.446 | .257 | -.786\*\* | .514\* | .182 | .037 | .680\*\* | .890\*\* | 1 |  |  |  |  |  |  |  |
| **APX** | .525\* | .309 | -.632\*\* | -.361 | .886\*\* | -.462 | .722\*\* | .729\*\* | .381 | -.038 | .732\*\* | .549\* | 1 |  |  |  |  |  |  |
| **GR** | .231 | .010 | -.806\*\* | -.564\* | .433 | -.816\*\* | .550\* | .303 | .233 | .542\* | .804\*\* | .863\*\* | .711\*\* | 1 |  |  |  |  |  |
| **RAF** | -.255 | -.264 | -.180 | -.014 | -.019 | .041 | -.105 | -.165 | .179 | -.160 | -.366 | -.276 | -.038 | -.052 | 1 |  |  |  |  |
| **SAF** | -.234 | -.267 | -.260 | -.191 | -.101 | .069 | -.180 | -.227 | .156 | -.094 | -.315 | -.250 | -.086 | -.160 | .354 | 1 |  |  |  |
| **TF** | -.243 | -.297 | -.215 | -.285 | -.083 | .035 | -.113 | -.184 | .175 | -.088 | -.211 | -.219 | -.052 | -.161 | .186 | .963\*\* | 1 |  |  |
| **SW** | .770\*\* | .533\* | -.334 | -.110 | .738\*\* | -.192 | .377 | .804\*\* | .197 | -.126 | .445 | .372 | .621\* | .425 | -.323 | -.271 | -.242 | 1 |  |
| **SN** | .838\*\* | .605\* | -.388 | -.147 | .730\*\* | -.250 | .327 | .783\*\* | .077 | -.091 | .486 | .410 | .661\*\* | .462 | -.318 | -.262 | -.237 | .986\*\* | 1 |

\*\*. Correlation is significant at the 0.01 level (2-tailed).

\*. Correlation is significant at the 0.05 level (2-tailed).

Here, DW: dry weight; NPP: net primary productivity; TChl: total chlorophyll; CRT: carotenoids; CRB: carbohydrates; PRT: proteins; PRL: proline; MDA: malonaldehyde; H2O2: hydrogen peroxide; SOD: superoxide dismutase; POD: guaiacol peroxidase; CAT: catalase; APX: ascorbate peroxidase; SAF: shoot accumulation factor; RAF: root accumulation factor; TF: translocation factor; SW: seed weight; SN: seed number.