**Supplemental Table 5. Coefficients of correlation between relative response of seeds to the tested conditions and seed weight calculated using Speraman’s sum rank test.** Analysis was conducted using data from Experiments 1-4 for all tested species and for divided groups of acidophilous and basiphilous species. For each species, the data were normalized to FGP values recorded at pH = 7 (Experiment 1) or control (null concentration) conditions (Experiments 2-4) and weight of seeds were took from presented investigation (Table 1). Data is presented as coefficients with respective p values (showed in parentheses). Significant correlations were bolded (p < 0.05).

|  |  |  |  |
| --- | --- | --- | --- |
| Conditions | Acidophilous species  (n = 10) | Basophilous species  (n = 10) | All species  (n = 20) |
|  |  | FGP |  |
| Acidity (pH) |  |  |  |
| 5.0 | -0,479 (0.162) | -0.358 (0.310) | -0.430 (0.058) |
| 6.0 | -0.309 (0.385) | -0.030 (0.934) | -0.200 (0.398) |
| 8.0 | 0.127 (0.726) | 0.055 (0.881) | 0.023 (0.925) |
| Iron (Fe) |  |  |  |
| 5 µmol · dm−3 FeCl3 | 0.139 (0.701) | 0.248 (0.489) | 0.090 (0.705) |
| 25 µmol · dm−3 FeCl3 | 0.333 (0.347) | -0.261 (0.467) | 0.059 (0.803) |
| 5 µmol · dm−3 Fe-HBED | -0.127 (0.726) | 0.024 (0.947) | -0.050 (0.835) |
| 25 µmol · dm−3 Fe-HBED | 0.164 (0.651) | -0.224 (0.533) | 0.051 (0.830) |
| Manganese (Mn) |  |  |  |
| 5 µmol · dm−3 MnCl2 | -0.164 (0.651) | -0.491 (0.150) | **-0.447 (0.048)** |
| 25 µmol · dm−3 MnCl2 | -0.309 (0.385) | -0.539 (0.108) | -0.423 (0.063) |
| 5 µmol · dm−3 Mn-HBED | 0.297 (0.405) | -0.552 (0.098) | -0.206 (0.383) |
| 25 µmol · dm−3 Mn-HBED | 0.152 (0.675) | -0.285 (0.425) | -0.126 (0.598) |
| Aluminum (Al) |  |  |  |
| 0.01 mmol · dm−3 | -0.624 (0.054) | -0.505 (0.137) | **-0.510 (0.022)** |
| 0.10 mmol · dm−3 | -0.188 (0.603) | -0.212 (0.556) | -0.173 (0.466) |
| 1.00 mmol · dm−3 | 0.454 (0.187) | -0.176 (0.627) | 0.066 (0.782) |
| 10.00 mmol · dm−3 | 0.345 (0.328) | -0.309 (0.385) | -0.063 (0.791) |
|  |  | IGV |  |
| Acidity (pH) |  |  |  |
| 5.0 | -0.430 (0.214) | -0.321 (0.365) | -0.415 (0.069) |
| 6.0 | -0.345 (0.328) | -0.067 (0.855) | -0.192 (0.416) |
| 8.0 | 0.261 (0.467) | 0.103 (0.777) | 0.062 (0.796) |
| Iron (Fe) |  |  |  |
| 5 µmol · dm−3 FeCl3 | -0.309 (0.385) | 0.406 (0.244) | -0.135 (0.571) |
| 25 µmol · dm−3 FeCl3 | -0.042 (0.907) | -0.285 (0.425) | -0.102 (0.668) |
| 5 µmol · dm−3 Fe-HBED | -0.188 (0.603) | 0.285 (0.425) | -0.030 (0.900) |
| 25 µmol · dm−3 Fe-HBED | 0.176 (0.626) | -0.248 (0.489) | 0.076 (0.750) |
| Manganese (Mn) |  |  |  |
| 5 µmol · dm−3 MnCl2 | -0.127 (0.726) | 0.182 (0.614) | -0.363 (0.115) |
| 25 µmol · dm−3 MnCl2 | -0.152 (0.676) | -0.134 (0.713) | -0.355 (0.125) |
| 5 µmol · dm−3 Mn-HBED | 0.333 (0.347) | 0.115 (0.751) | -0.062 (0.796) |
| 25 µmol · dm−3 Mn-HBED | 0.309 (0.385) | 0.358 (0.310) | 0.002 (0.995) |
| Aluminum (Al) |  |  |  |
| 0.01 mmol · dm−3 | **-0.648 (0.043)** | -0.382 (0.276) | **-0.503 (0.024)** |
| 0.10 mmol · dm−3 | -0.103 (0.777) | -0.152 (0.676) | -0.161 (0.498) |
| 1.00 mmol · dm−3 | 0.527 (0.117) | -0.079 (0.829) | 0.191 (0.420) |
| 10.00 mmol · dm−3 | 0.418 (0.229) | -0.297 (0.405) | 0.017 (0.945) |