

**Suppl. Figure S2.** Comparison of physiological data in leaves of *Spinacia oleracea* variety Sp75 and Sp73. The columns represent different treatment conditions (37 °C / 32°C day/night for 24 h, 48 h and 72 h). The rows represent individual physiological data. The increased or decreased data were indicated in red or green, respectively. The color intensity increases with increasing abundance, as shown in the scale bar. The scale bar indicates log (base2) transformed relative physiological data abundance ratios ranging from -1.25 to 1.25. Abbreviations: APX ascorbate peroxidase; AsA, ascorbate; CAT, catalase; Ci, intercellular CO2; DHA, dehydroascorbate; DHAR, dehydroascorbate reductase; Fv/Fm, PSII maximum quantum yield; GPX, glutathione peroxidase; GR, glutathione reductase; Gs, stomata conductance; GSH, glutathione; GSSG, oxidized glutathione; GST, glutathione S-transferase; H2O2, hydrogen peroxide; MDHAR, monodehydroascorbate reductase; Pn, photosynthesis rate; POD, peroxidase; Pro, proline; REL, relative electrolyte leakage; SOD, superoxide dismutase; TBARS, thiobarbituric acid reactive substance; Tr, transpiration rate; Y(II), effective PSII quantum yield.