



Figure S1. Heatmap based on Pearson's correlation coefficient ($-1 \leq r \leq 1$) for the correlation between average biomass parameters (fresh aboveground biomass weight – FW; dry aboveground biomass weight – DW), average chlorophyll a fluorescence parameters (F_0 , F_v , F_m , TR_0/DI_0 , TR_0/ABS , ET_0/TR_0 , ET_0/ABS , PI_{ABS} , ABS/RC , TR_0/RC , ET_0/RC , DI_0/RC , RE_0/RC , RC/ABS , RE_0/ET_0 , PI_{TOTAL} - descriptions can be found in Table 1) and Pigment related spectral reflectance indices (ZMI , $SIPI$, $MCARI$, $MCARI1$, $TCARI$, $NPCI$, $SPRI$, $NPQI$, $CRI1$, $CRI2$, $ARI1$, $ARI2$, PRI - descriptions can be found in Table 2) measured on 12 soybean elite breeding lines in three treatments ($n = 144$). Pearson's coefficient of correlation (r) is noted inside the quadrants. Statistical significance is indicated with * ($P < 0.05$), ** ($P < 0.01$) and *** ($P < 0.001$).