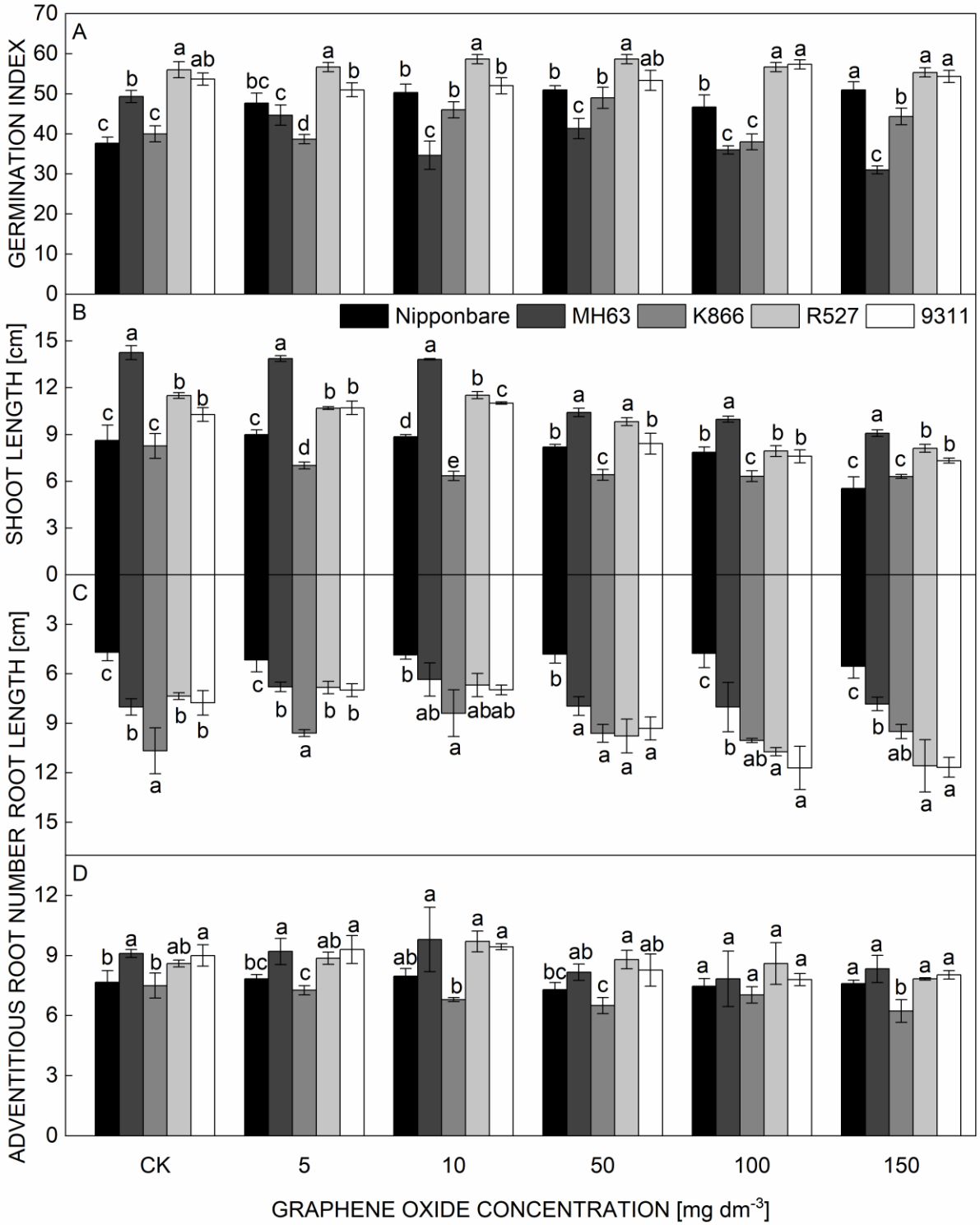

Fig. 1 Suppl. Germination index (*A*), shoot length (*B*), root length (*C*), and adventitious root number (*D*) of five different rice cultivars in response to different graphene oxide (GO) dosages for 16 d. Means ± SDs, $n = 3$. Lower-case letters indicate significant differences (Duncan's multiple range test, $P < 0.01$) between genotypes under the control or particular GO treatment.

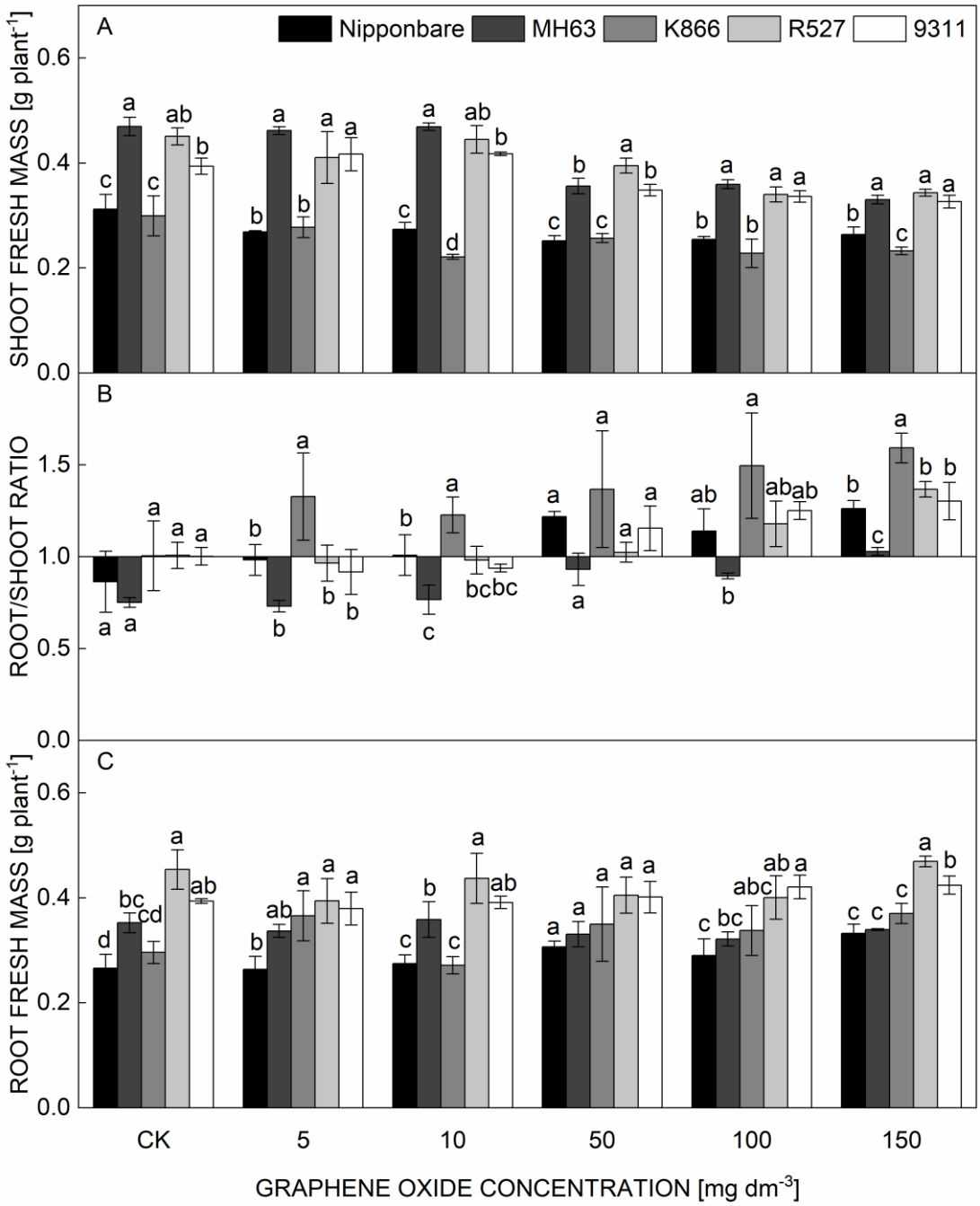

Fig. 2 Suppl. Shoot (*A*) and root (*C*) fresh masses, and root/shoot ratio (*B*) of five different rice cultivars in response to different graphene oxide (GO) dosages for 16 d. Means ± SDs, $n = 3$. Lower-case letters indicate significant differences (Duncan's multiple range test, $P < 0.01$) between genotypes under the control or particular GO treatment.

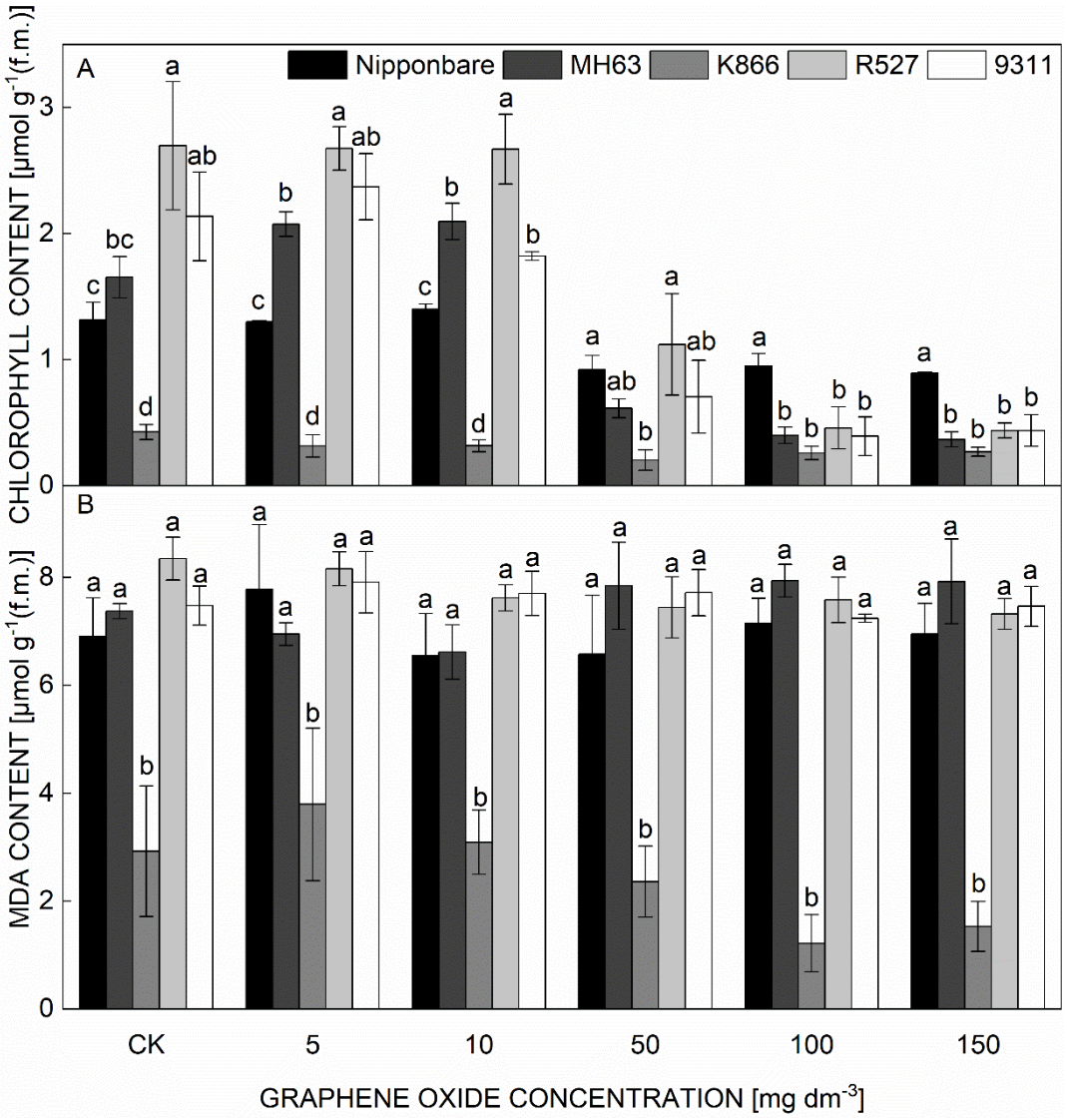

Fig. 3 Suppl. Chlorophyll (*A*) and malondialdehyde (MDA) content (*B*) of five different rice cultivars in response to different graphene oxide (GO) dosages for 16 d. Means ± SDs, $n = 3$. Lower-case letters indicate significant differences (Duncan's multiple range test, $P < 0.01$) between genotypes under the control or particular GO treatment.

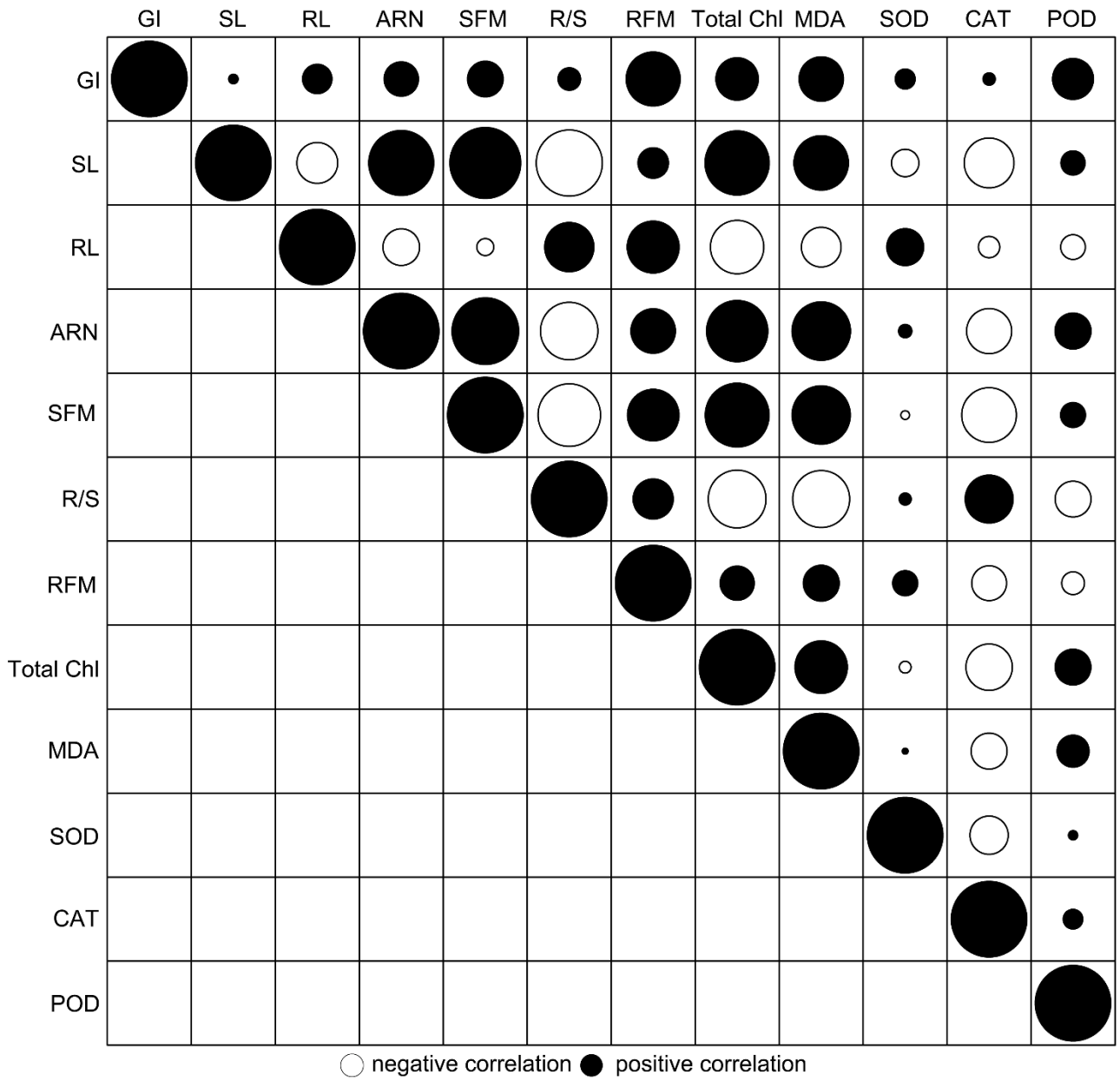

Fig. 4 Suppl. Visualization of a correlation matrix based on Pearson correlation coefficients of five different rice cultivars in response to different graphene oxide dosages for 16 d. *Empty* and *solid circles* indicate negative and positive correlations, respectively. The size of a circle represents the correlation intensity. GI - germination index, SL - shoot length, RL - root length, ARN - adventitious root number, SFW - shoot fresh mass, RFW - root fresh mass, R/S - root/shoot ratio, total Chl - total chlorophyll content, MDA - malondialdehyde content, SOD - superoxide dismutase activity, CAT - catalase activity, POD - peroxidase activity.