

Table S1. Eigenvalues and explained variance for the canonical biplot.

Dimension	Eigenvalue	Explained variance	Cumulative
1	3.98	32.45	32.45
2	3.18	20.73	53.18
3	2.80	16.07	69.26
4	2.36	11.39	80.65
5	1.74	6.22	86.87
6	1.67	5.75	92.62
7	1.38	3.89	96.51
8	1.09	2.45	98.96
9	0.71	1.04	100.00

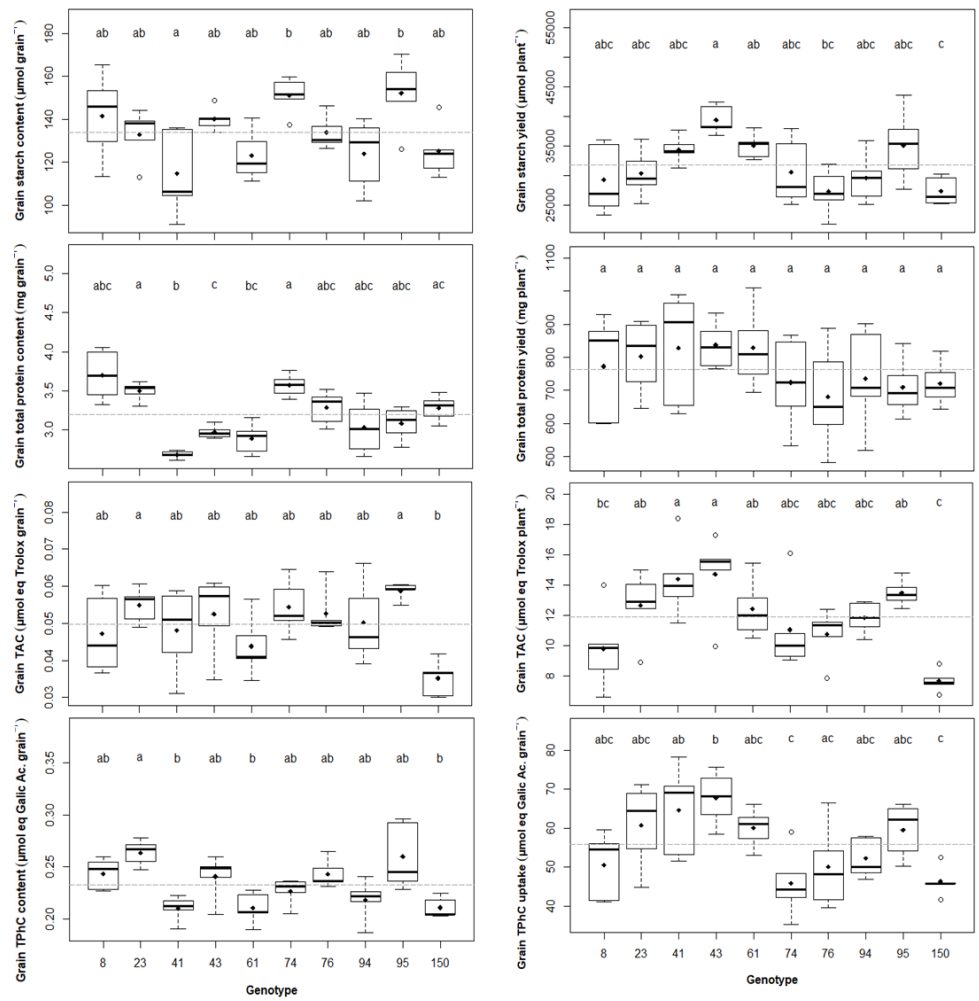


Figure S1. Boxplots of non-mineral nutrients per grain and plant.

TAC: total antioxidant capacity; TP: total protein; TPnC: Total phenolic compounds.

Black dots represent the mean of the five replicates ($n=5$) per genotype. The grey dotted line represents the mean among all the genotypes and replicates ($N=50$). The same letter indicates non-statistically significant differences at $p < 0.05$ as determined by post-hoc tests.

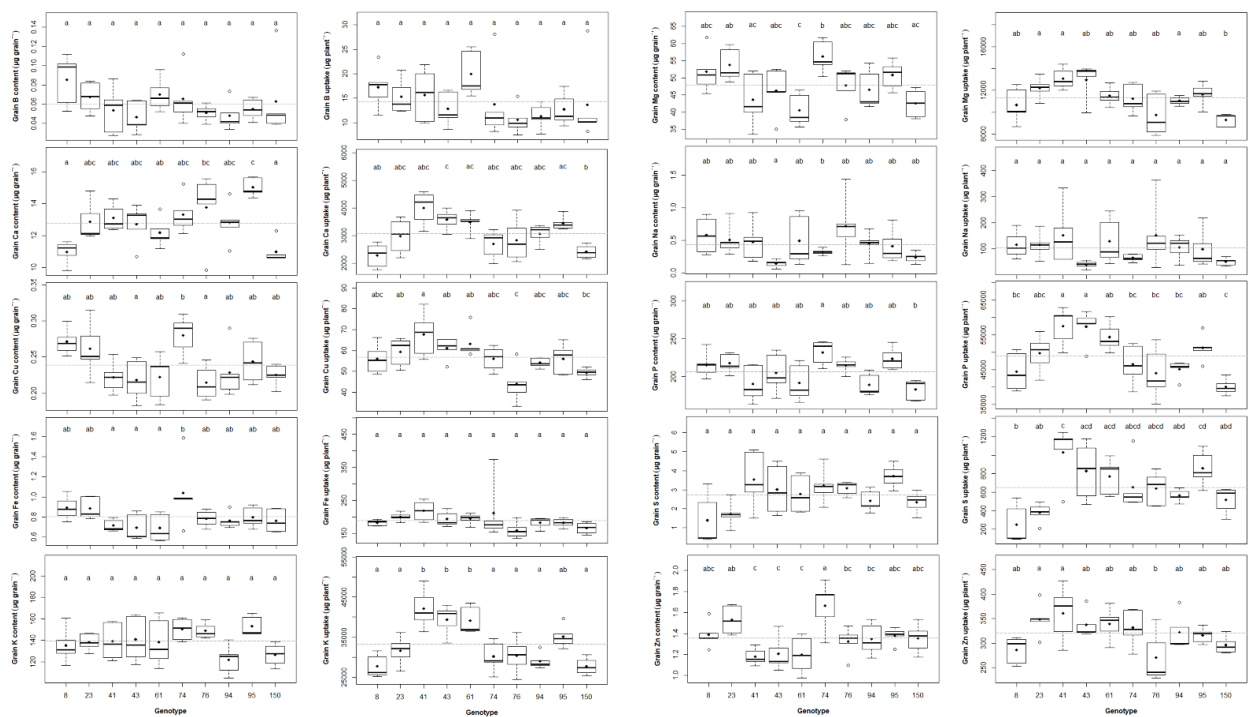


Figure S2. Boxplots of the contents in mineral components per grain and plant.

Black dots represent the mean of the five replicates ($n=5$) per genotype. The grey dotted line represents the mean among all the genotypes and replicates ($N=50$). The same letter indicates non-statistically significant differences at $p < 0.05$ as determined by post-hoc tests.