

Table S1 – Interactions between genotypes and environments/panels

Trait	ρ_R: correlation in reference genotype means (p-value)	ρ_G: correlation in genomic effects (p-value)
DTS	0.93 (1.0×10^{-10})	1.0 (4.6×10^{-21})
PH	0.65 (8.2×10^{-4})	0.78 (2.9×10^{-8})
GY	0.34 (0.13)	0.30 (0.13)

Trait: days to silking (DTS), plant height (PH), grain yield adjusted for DTS (GY). ρ_R :

correlation in estimated genotype means, only for reference lines tested in both panels; p-values

were estimated by t-tests. ρ_G : correlation in genomic breeding values, based on a polygenic

marker-by-panel interaction model fitted in Ames-H and NAM-H; p-values were estimated by

likelihood ratio tests.