

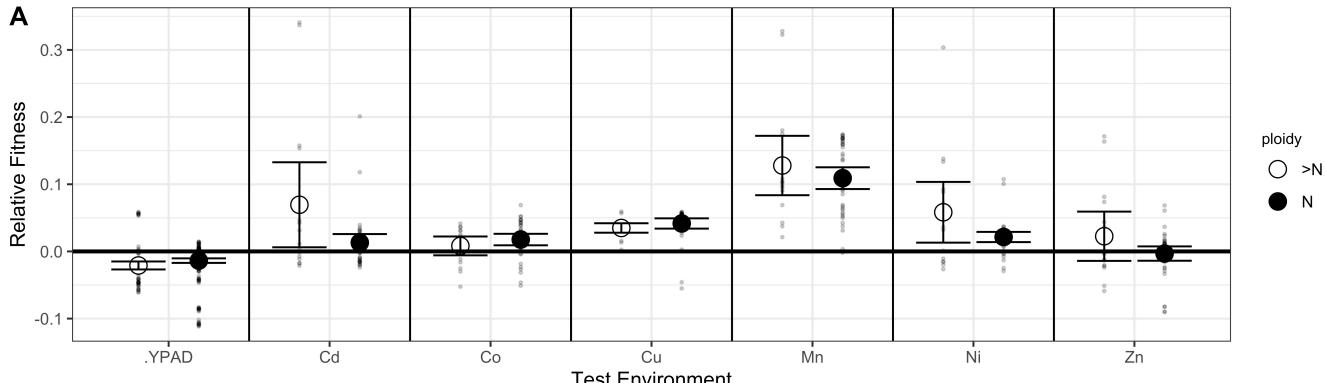
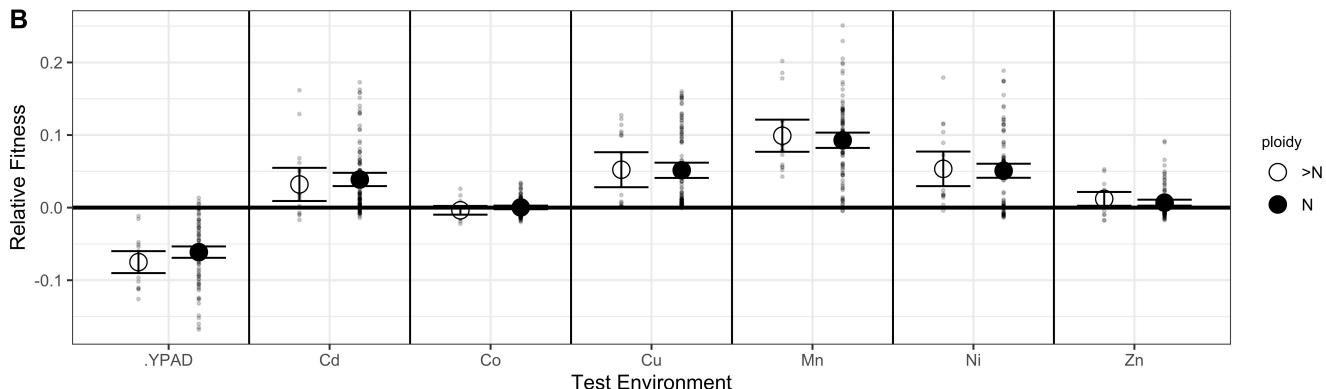
A**B**

Table S1. Metal Evolved Yeast Lines

Metal	96 deep-well (mM) [†]	Bioscreen (mM) [‡]	No. lines	No. Petites
CdSO ₄	0.035	0.0298	34	0
CoSO ₄	1.875	1.5938	16	16
CuSO ₄	7.9	6.715	15	2
MnCl ₂	3.5	2.975	28	22
NiSO ₄	2.2	1.87	17	2
ZnSO ₄	4.4	3.74	42	2

[†] Used in 1ml volume evolution experiment [‡] Used in 120 ul volume reciprocal transplant test

Table S2. Linear Model of Environment vs. Genotype Quality

—	All tests [†]	Not Evo. Env. [‡]
Residual standard error (4 df)	0.03388	0.01527
Multiple R-squared	0.2126	0.8492
Adjusted R-squared	0.0157	0.8115
F-statistic	1.08	22.53
p-value	0.3574	0.008992**

[†] Including tested in evolution environment [‡] Excluding tested in evolution environment

Table S3. Inter Class Contribution

Process	Random Effect [†]	Contribution Proportion
<i>Evolutionary Stochasitcity</i>	strain:E1:E2	0.104
<i>Evolutionary Stochasitcity</i>	strain:E2	0.004
<i>Evolutionary Stochasitcity</i>	strain:E1	0.021
<i>Environment Specific</i>	E1:E2	0.039
<i>Environment Specific</i>	E1	0.008
<i>Environment Specific</i>	E2	0.171
<i>Measurement Error</i>	plate:machine	0.009
<i>Measurement Error</i>	machine	0.089

[†]E1=Evolution environment; E2=Test environment