

**Table S4.** The effect of *Arabidopsis thaliana* genotypic diversity and *Hyaloperonospora arabidopsidis* (*Hpa*) on rosette diameter in a pair-wise interaction experiment. A linear mixed model was used to analyse each factor and all interactions between them. Fixed effects included experimental repeat, genotype, cultivation (2-way mixture/monoculture) and *Hpa* (presence/absence). Non-significant terms were eliminated from the model. *F* and *P* values refer to ANOVA tests of each factor separately and the interactions between them. N=1600.

<b>Fixed term</b>	<b>F</b>	<b>n.d.f.</b>	<b>d.d.f.</b>	<b>P</b>
Experiment	2145.41	1	584.9	<0.001
Genotype	174.29	3	584.9	<0.001
Cultivation	0.08	1	584.9	0.771
<i>Hpa</i>	334.82	1	584.9	<0.001
Experiment. Genotype	12.57	3	584.9	<0.001
Experiment. <i>Hpa</i>	146.6	1	584.9	<0.001
Genotype. <i>Hpa</i>	100.35	3	584.9	<0.001
Experiment. Genotype. <i>Hpa</i>	13.73	3	584.9	<0.001