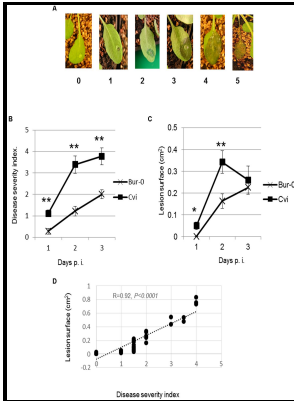


Study of quantitative variation in Arabidopsis thaliana

University of Birmingham - Top PDF Identification and Characterization of Genes underlying Natural variation in Flowering Time in Arabidopsis thaliana



Description: -

-study of quantitative variation in Arabidopsis thaliana

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Genotype networks of 80 quantitative Arabidopsis thaliana phenotypes reveal phenotypic evolvability despite pervasive epistasis

These QTLs explained 16, 12 and 23%, respectively, of the difference in Cd tolerance between Col-0 and Bur-0.

Arabidopsis thaliana

The two main modules found in each network are highlighted by different coloring of vertices in a genotype network, and. Several GO terms were specifically enriched among the genes responsive only in Bur-0.

Induced mutations alter patterns of quantitative variation, phenotypic integration, and plasticity to elevated CO2 in Arabidopsis thaliana

For plants grown in medium with varying Cd concentrations lower Cd accumulation was consistently observed for Bur-0 relative to Col-0 in both roots and shoots Fig. We then calculated the mean length of the mutational path from each vertex in all networks to the vertex with the maximum phenotypic value.

Natural Variation in Arabidopsis thaliana

For the analyses described below, we varied these P-value cutoffs between 10^{-4} and 10^{-9} , and note that a large P-value implies that more genomic positions are considered significantly associated with a phenotype. Phytochelatins and metallothioneins: Roles in heavy metal detoxification and homeostasis.

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