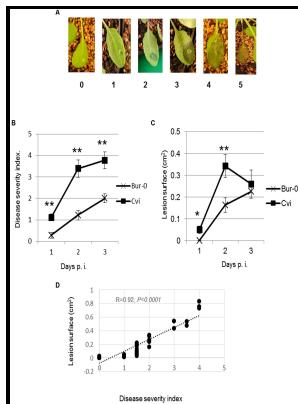


# Study of quantitative variation in *Arabidopsis thaliana*

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.

## Related Books

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