

Study of quantitative variation in *Arabidopsis thaliana*

University of Birmingham - Natural variation in *Arabidopsis thaliana* Cd responses and the detection of quantitative trait loci affecting Cd tolerance



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Among

Plants have to acquire essential microelements Fe, Zn, Cu, Mn, Co, Ni, Mo, B from soil solutions that can vary in concentrations of the respective ions by orders of magnitude. Cao J, Schneeberger K, Ossowski S, Günther T, Bender S, Fitz J, et al. Topological structure of the space of phenotypes: The case of RNA neutral networks.

Natural variation in *Arabidopsis thaliana* Cd responses and the detection of quantitative trait loci affecting Cd tolerance

Rowe HC, Hansen BG, Halkier BA, Kliebenstein DJ. A similar expression pattern has been described for other members of the SNF2 family such as SYD, PKL and PIE1, consistent with the putative role of these proteins in chromatin remodeling associated with developmental transcriptional reprogramming Eshed et al.

Arabidopsis thaliana

The activity of this complex is counteracted by R3 MYB factors that compete with the R2R3 MYB for binding to the bHLH factor.

Genome

One part was incubated with anti-AP1 serum for 4 hours, while the other part was mixed with normal rabbit IgG as a negative control.

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The analysis of accession-specific responses suggested a second possible explanation for the higher Cd tolerance of Bur-0 besides the reduced Cd accumulation Fig. We show the number of paths left vertical axes binned according to path length horizontal axes, path length between 1 and 2 mutational steps, between 2 and 3 mutational steps, etc. T-DNA mapping, mRNA transcript detection, and the GUS reporter gene system were used to characterize pat3-2 and pat3-3 mutants.

Natural Variation in *Arabidopsis thaliana*

During the 3rd and 4th week the medium was exchanged once per week. The focus of our analysis was on sustained acclimative changes.

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