GeneChip data with replications (ES vs. PES)

CSH (alfalfa)

GeneChip data with replications (ES vs. PES)

Select differentially expressed genes (PES/ES≥2-fold)

Reference species (M. truncatula)

condense (RMA) normalize

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For each signal intensity threshold

Number of probe sets retained

Select signal intensity threshold that maximized number of retained probe sets of commonly-selected genes and maintained a high correlation coefficient for the PES/ES ratio between species

Number of commonly-selected genes in both species (PES/ES≥2-fold)

Pearson correlation coefficient for ratios (PES/ES) from commonly-selected genes between two species

Transcript profiling
- t-test, ANOVA, fold-change
- Functional classification
- Over-representation analysis
- Pathway analysis