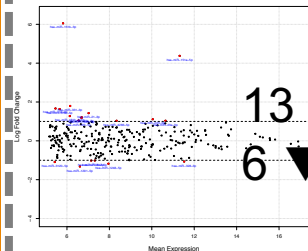


miRNA-mRNA Network Analysis Pipeline

Goal: confirm miRNA target gene predictions and generate networks related to sPTL

Input: Gene Expression Data, miRNA Data, Phenotype

Step 1: Identify miRNAs



Step 2: Identify Targets

For selected miRNAs,
generate list of mRNA
targets



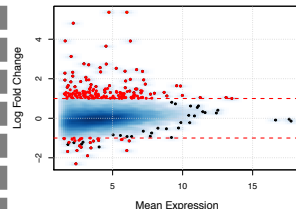
Step 3: confirm predictions

spearman correlations

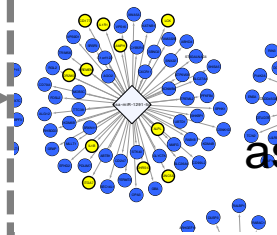
Strength: $p < 0.05$

Directionality: $\rho < -0.3$

Step 1B: Identify mRNAs



Step 4: Network Analysis



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associated with
DE miRNAs