Gene expression data
- Expression level matrix, genes x conditions

Select a gene

Gene expression profile
- Expression values across the conditions

Fit the normal distribution
- Apply clustering function
- Allow 1 to 3 normal distributions

Determine the null distribution
- Select normal distributions to be part of the null distribution (according to md, per, mlk and rsd parameters)
- Compute P-values

Multiple testing correction on the all set of p-values

Detect the specific conditions
- Apply p-value threshold on adjusted p-values
- Determine list of specific condition for each genes