

A scatter plot showing the relationship between  $\log_{10}(\text{FC})$  (x-axis) and  $-\log_{10}(\text{p-value})$  (y-axis) for 1000 genes. The plot displays two distinct clusters of genes. The upper cluster, represented by cyan circles, consists of genes with high fold change and high significance. The lower cluster, represented by magenta circles, consists of genes with lower fold change and lower significance. A green regression line is shown, indicating a positive correlation between the two variables, with a slope of 0.000.

