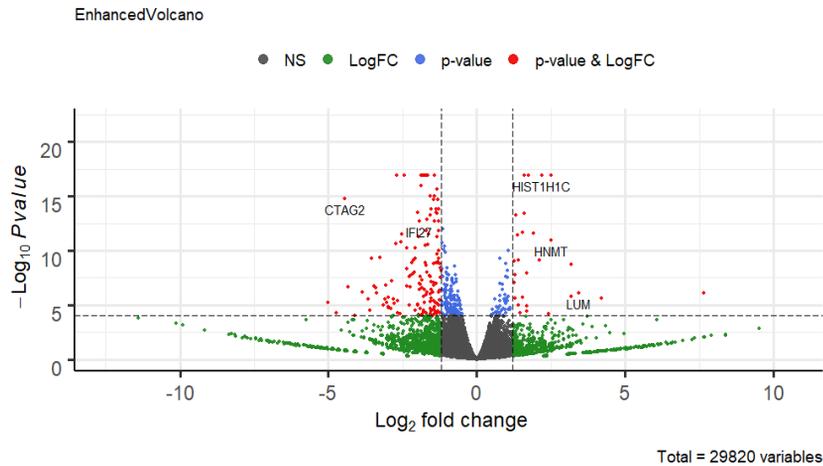


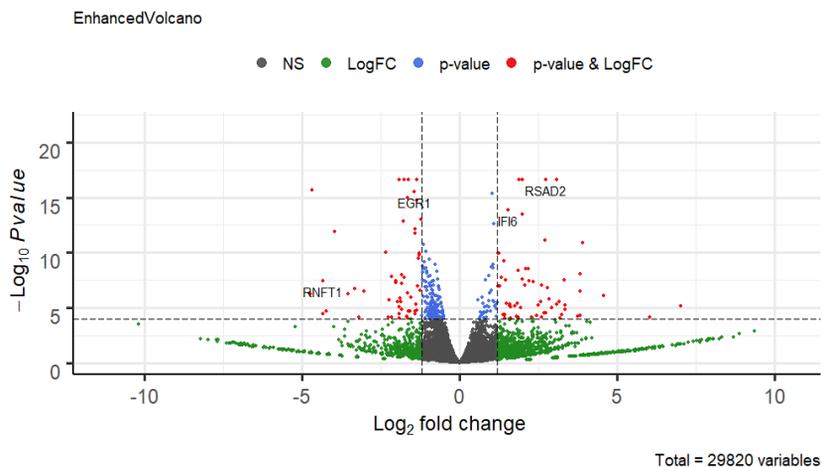
Supplementary Figure S1: Validation of RNA-seq profile across all the categories.

Changes in gene expression as analyzed by real time PCR. The data were represented as mean \pm SD and significance between groups were determined by ANOVA test where * denoted $p < 0.05$ and NS=Not significant.

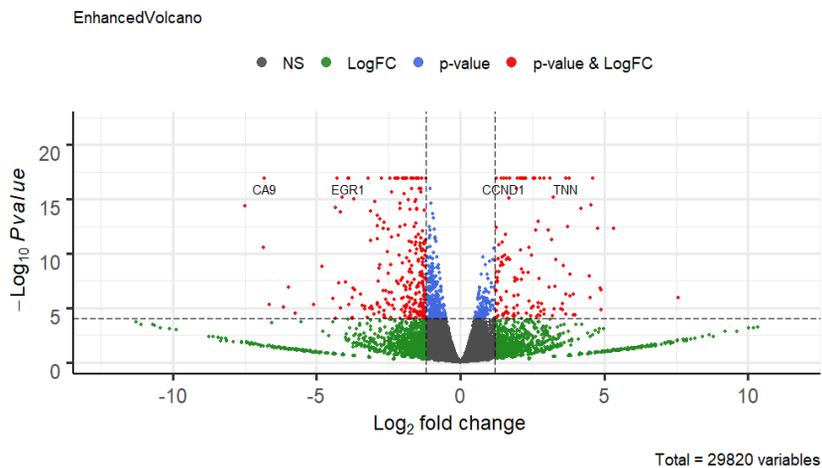
XRCC4 (-/-) vs HeLa-NT



Mirin vs HeLa-NT



XRCC4 (-/-) + Mirin vs HeLa-NT



Supplementary Figure S2: Volcano chart and functional enrichment analysis.

Volcano chart showing differentially expressed genes with $FDR < 0.01$ and $\log_2 FC \geq 1.2$ compared to HeLa-NT cells A) *XRCC4*(-/-), B) Mirin treatment, C) *XRCC4*(-/-) + Mirin treatment.