





Figure 1: Heatmap and dendrogram showing the hierarchical clustering of 48 samples based on their gene expression profiles. The heatmap displays the expression levels of 100 genes across the samples, with colors ranging from yellow (low expression) to red (high expression). The dendrogram on the right illustrates the hierarchical relationship between the samples, showing that they cluster into two main groups, each of which further subdivides into smaller clusters. The samples are labeled on the right side of the heatmap, ordered according to the dendrogram's branching structure.





