



Methylation UMAP plot

Figure 1: A Manhattan plot showing the association of 10,000 SNPs with the expression of 100 genes. The y-axis represents the association p-value on a $-\log_{10}$ scale, ranging from -1.2 to 1.2. The x-axis shows chromosomes from chr1 to chrY. Blue dots represent SNPs associated with the expression of the 100 genes, while red dots represent SNPs not associated. A horizontal blue line at $y=0$ indicates the significance threshold. Several genes are labeled with their names and corresponding SNPs: NTRK1, MDM4, MYCN, RAC1, MLH1, SOX2, OPA1, PRG4, CDKN2B, CD274, NTRK2, PTEN, CDKN2A, RB1, NUTM1, NTRK3, TP53, NF1, ERBB2, BRD4, NF2, and IL13RA2.