**A**

Expression breadth ($\tau$) distribution for chromatin states in BG3 and S2. The box plots show the spread and central tendency of the expression breadth values. The active and repressive chromatin states are distinct with significantly different expression breadth values indicated by the asterisks.

**B**

Histogram showing the distribution of the number of genes with broad and narrow expression breadth in BG3. The active genes are significantly higher in number compared to the repressive genes, with a p-value of less than $10^{-15}$. The histogram is color-coded to distinguish broad from narrow expression breadth.