



**Supplementary Figure 8**

*Subtype-specific variable regions show characteristic enrichment patterns.*

a) Differential variability between the mCLL and uCLL sample groups illustrated by each region's change in variance-to-mean ratio between groups (x-axis) and the  $p$ -value for variability within each group (y-axis). Blue and orange dots indicate significantly variable regions. b) Scatterplots of mean accessibility (left) and variance-to-mean ratio within each sample group (right). The plot on the left illustrates how significantly variable regions are dispersed across the accessibility range, rather than being strongly associated with differences in mean accessibility between the groups. The color coding is the same as in panel a. c) Most highly enriched region sets that significantly overlap with the differentially variable regions for mCLL (blue) and for uCLL (orange), based on LOLA analysis.