A

Supplemental Figure 6

Variation is defined by transcriptome

Simulated data

Variation is defined by clones

$$M_s = M - \frac{s}{10} * (M - M_b)$$

M_s − Warped PC matrix passed to UMAP
M − Matrix of PCs
s − scalar from 0 to 10
M_b − Matrix of mean PC values by barcode
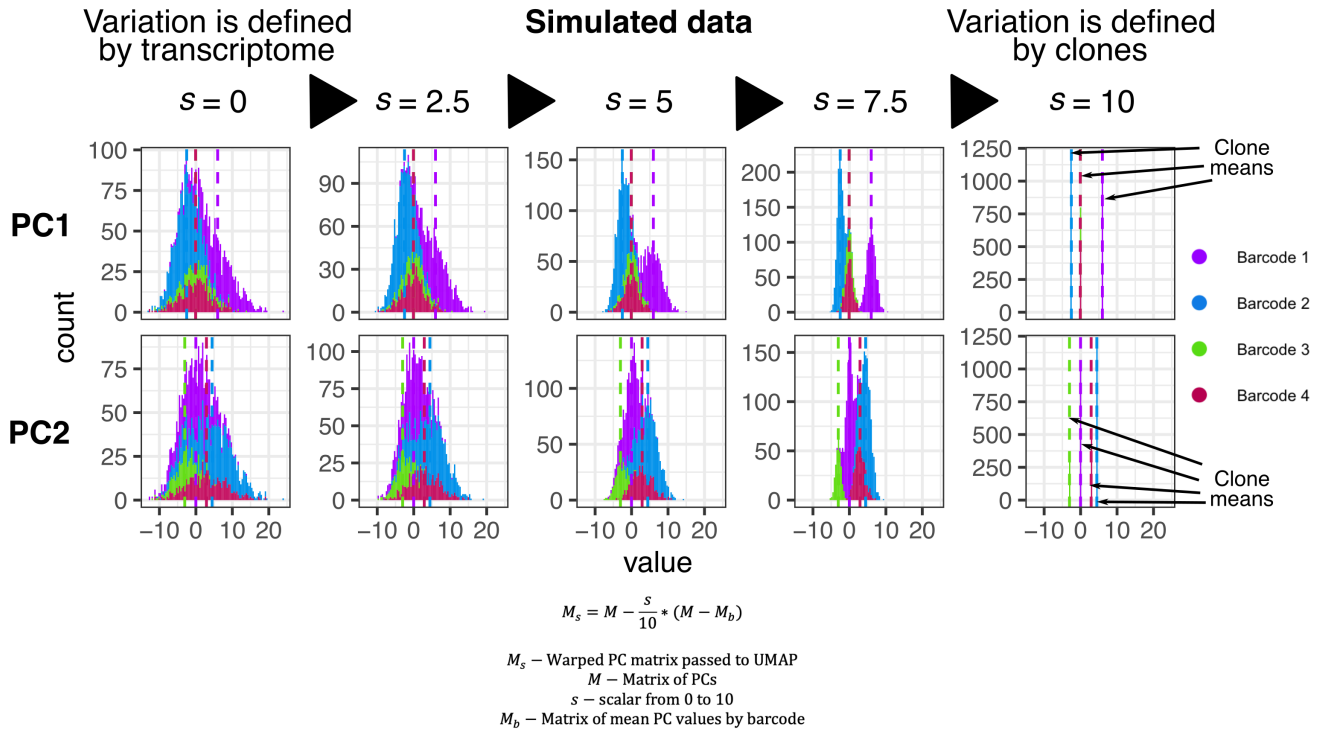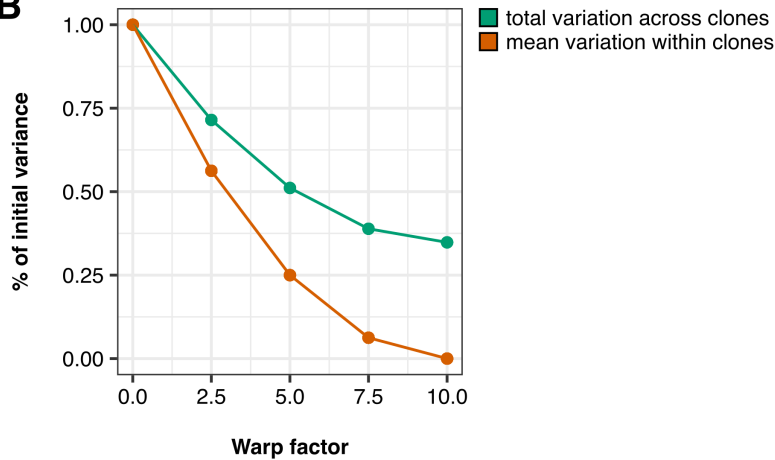
Figure S6, Related to Figure 4: Increasing Warp Factor, s, reduces the variation of principal component values around clone barcode means.
A. Histograms colored by clone barcodes demonstrating the distribution of PC values for two principal components for simulated data for 3,000 cells with four clone barcode assignments. Vertical dashed lines represent the mean values for each clone barcode at s = 0, equivalent to the unmodified PC means. At s = 10, modified PC values are equivalent to the assigned clone barcode means. Modified PC values are then passed to the UMAP implementation for visualization as in Figure 4.
B. Mean variation of all PCs in simulated data within and between clone barcodes stratified by values of s.