**Principal Component Analysis (PCA)** Cell Viability Proportions\_Memory Proportions\_Naive Activation Sample\_Site . Relapse Type\_Treatment Time\_Since\_Treatment Delivery\_Week Pregnancy\_Week Age Sample\_Type Disease State **TimePoint**  $p < 1x 10^{-10}$ Individual  $p < 1x 10^{-5}$ Sample\_Group p < 0.01 Library\_Batch p < 0.05SampleID p > 0.05PCA10 PCA2 PCA3 PCA4 PCA5 PCA6 PCA7 PCA8 PCA9 PCA1 0.15 Variance Explained 0.10 0.05 PCA6 PCA10 PCA1 PCA3 PCA4 PCA8 PCA9 PCA2 PCA5 PCA7