A

Download single-cell gene expression Chromium fastq file
*10X Genomics data portal
*NCBI GEO database

Evaluated Cell Ranger (CR) versions
2.1.0 | 3.1.0 | 4.0.0 | 5.0.0 | 6.0.0 | 7.0.1 | 7.1.0

[1] possorted_genome_bam
[2] Filtered_feature_bc_matrix

1 SkewC → SkewC annotation

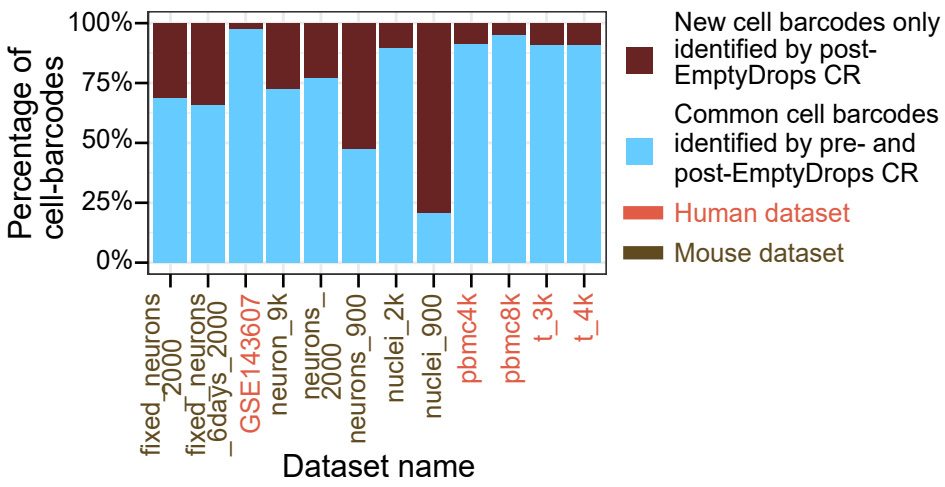
2 Seurat → Seurat Data Object

-Analysis of single cell QC metrics per cell & per CR version
- *Gene coverage for each cell, and its skewness*
- *Seurat QC (detected features, detected UMI and % of mitGenes)*

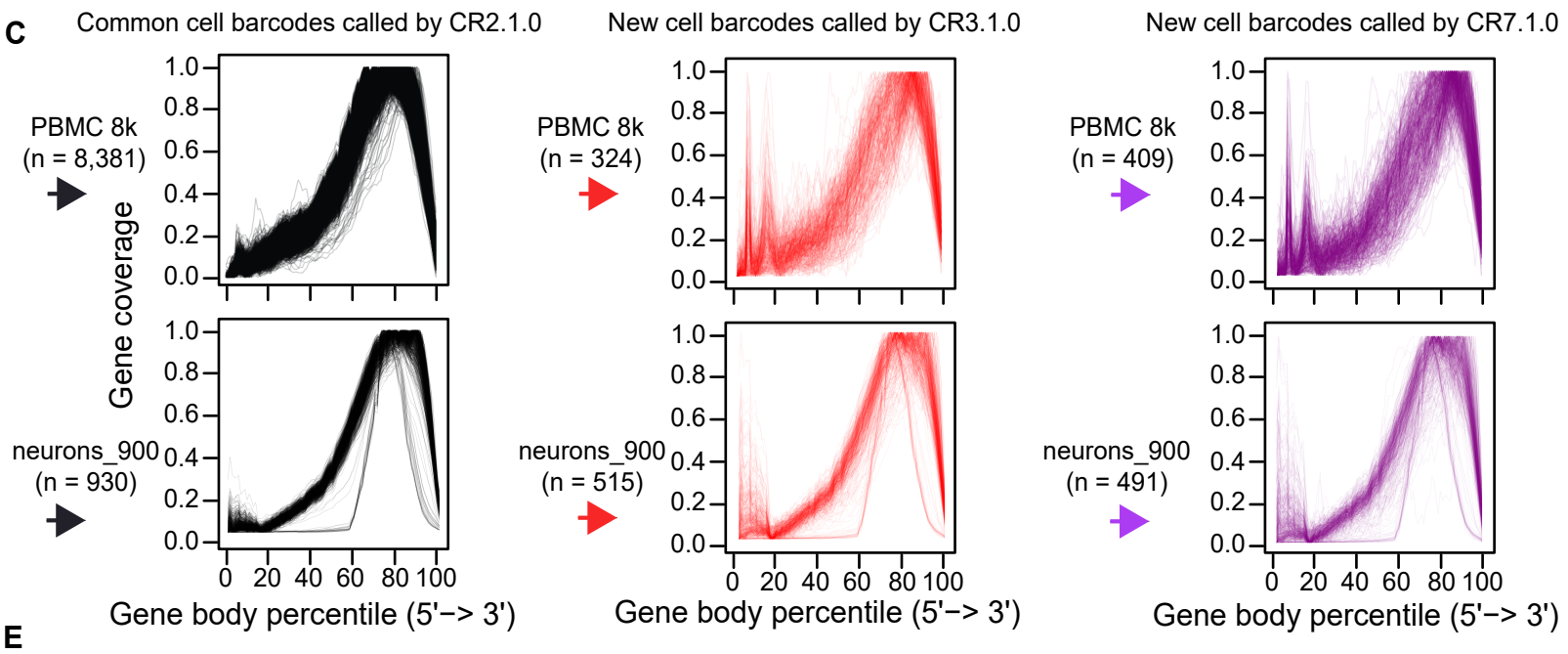
-Impact of CR version on scRNA-seq downstream analysis
- *Number of cluster, cluster size and cluster marker genes*

-Analysis of QC of common cell barcodes

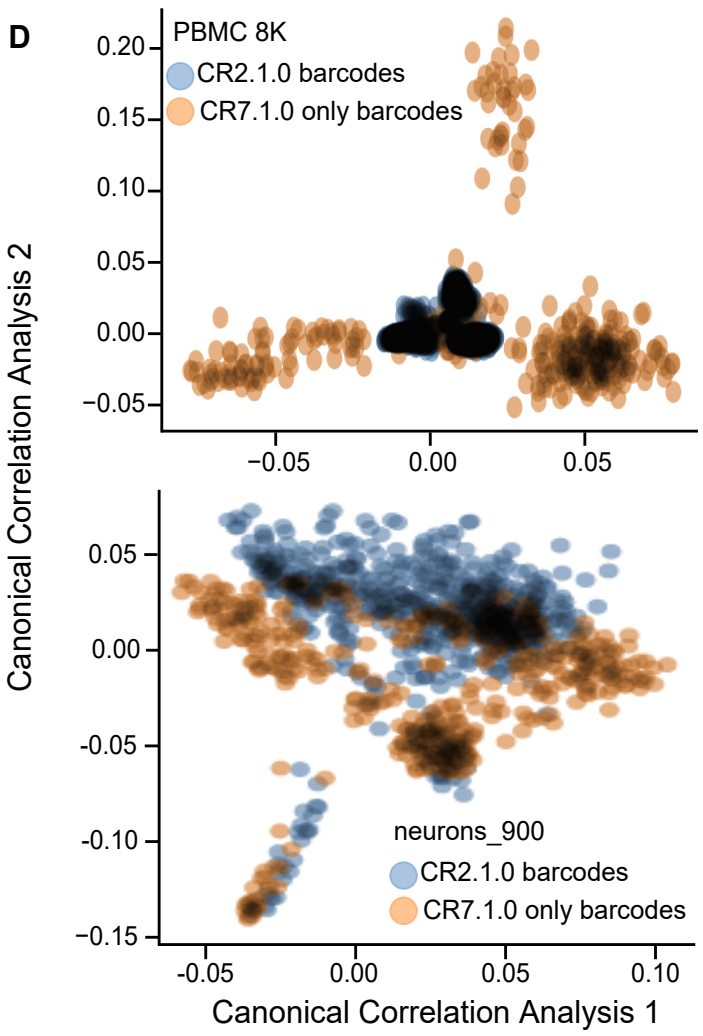
B

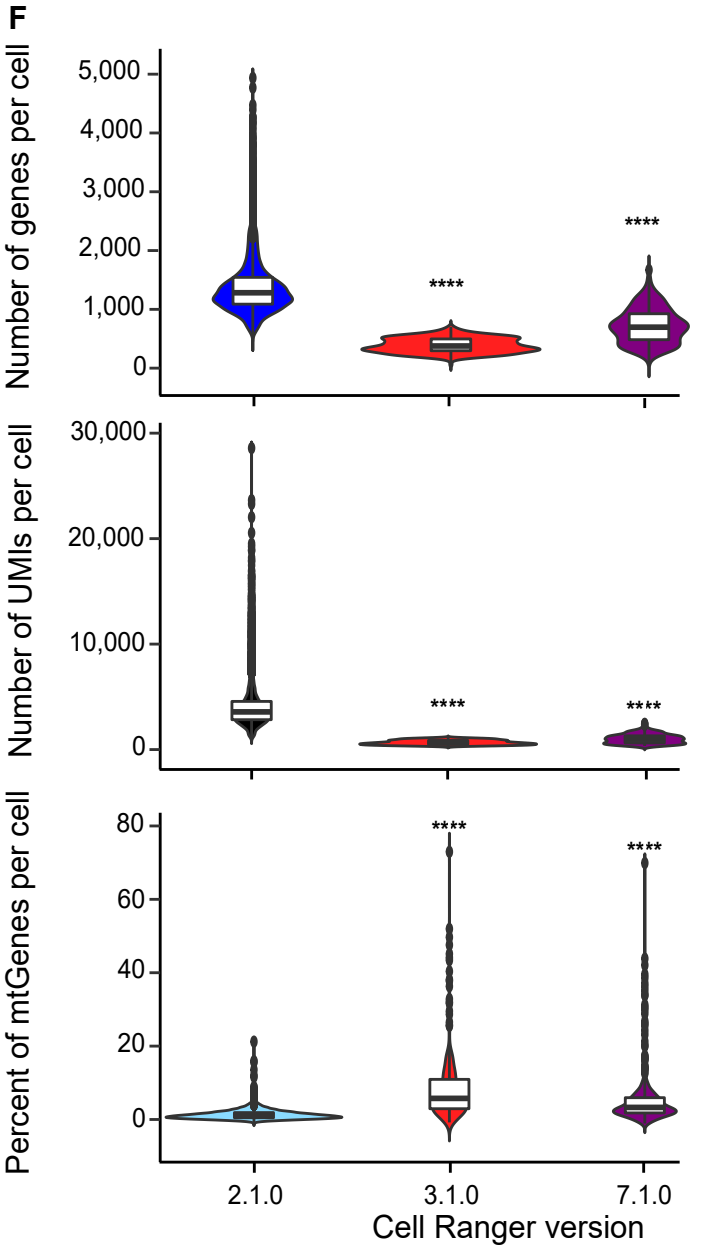


C



D



E

F