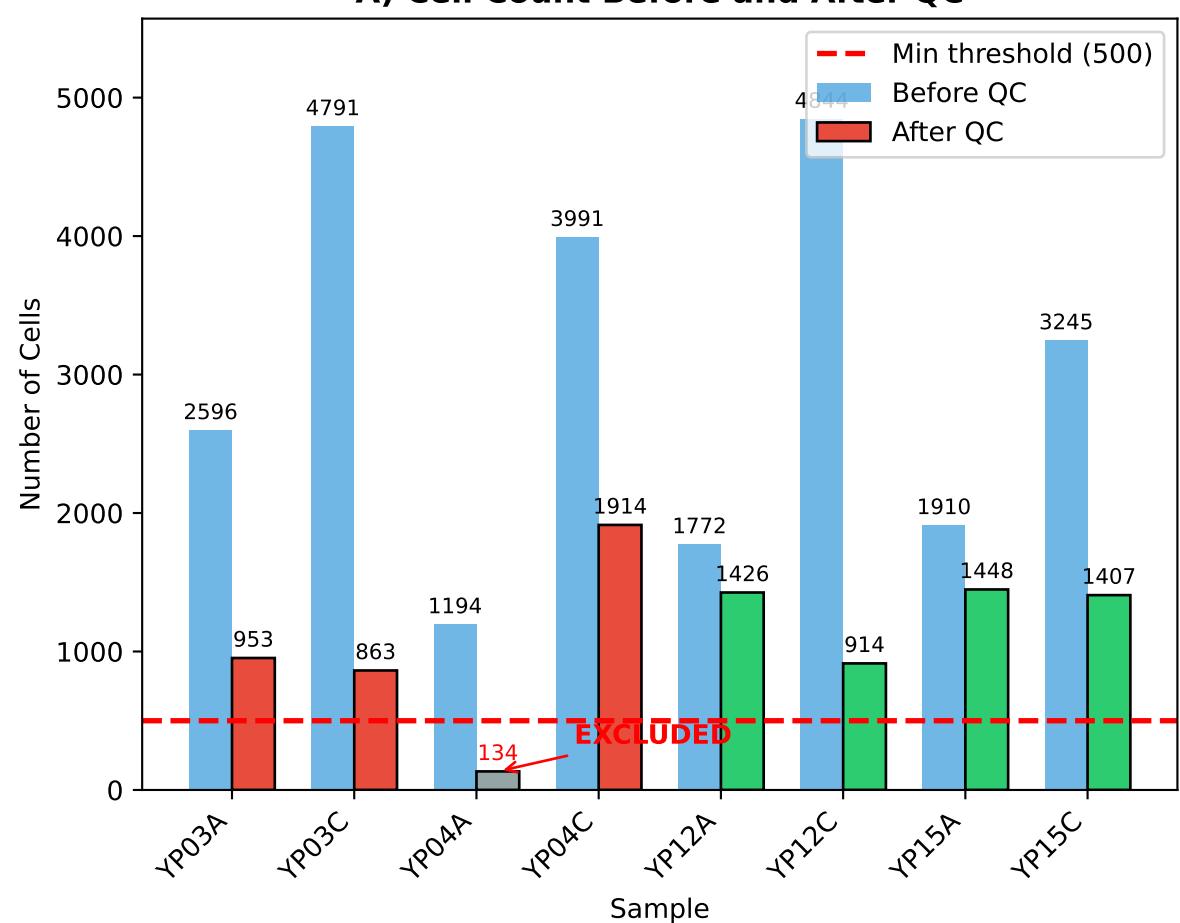
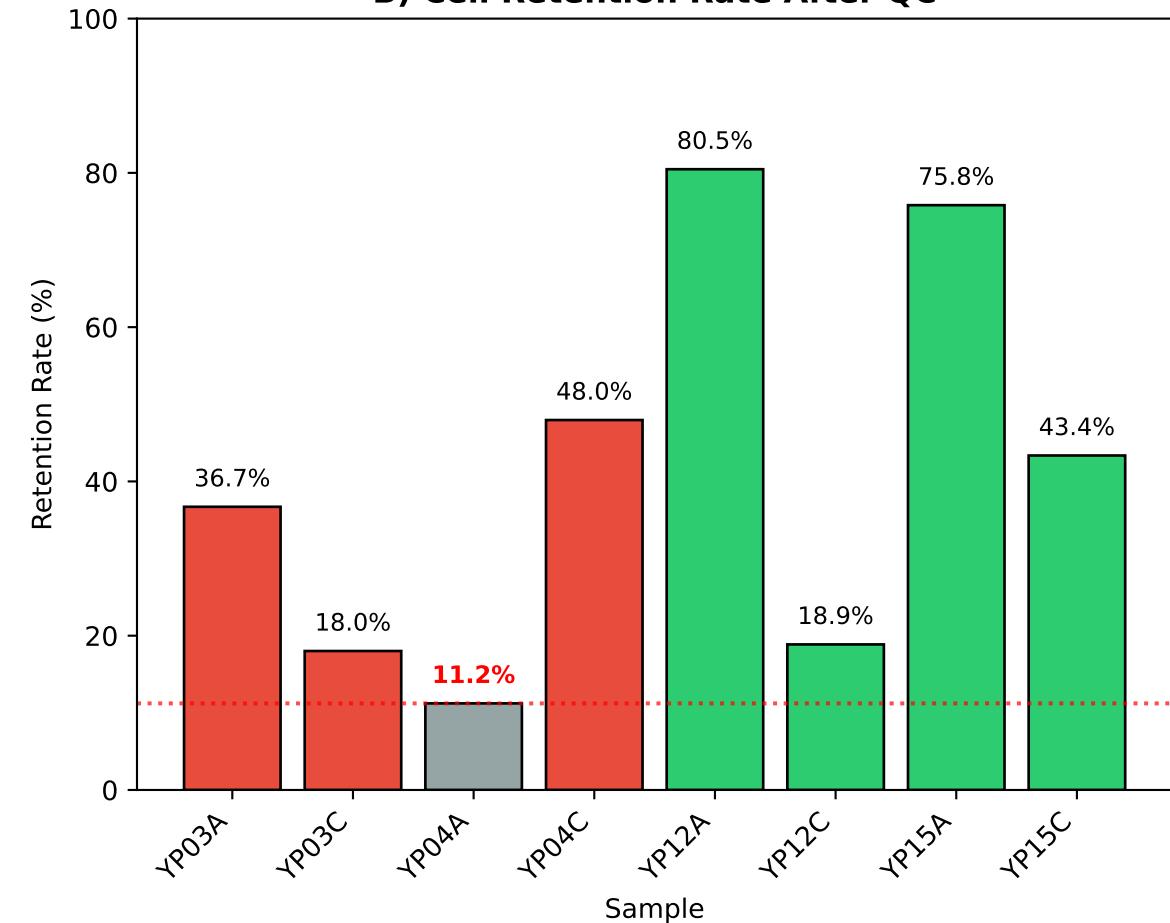


Figure 0: Sample Exclusion Documentation
(YP04A excluded due to insufficient cells after QC)

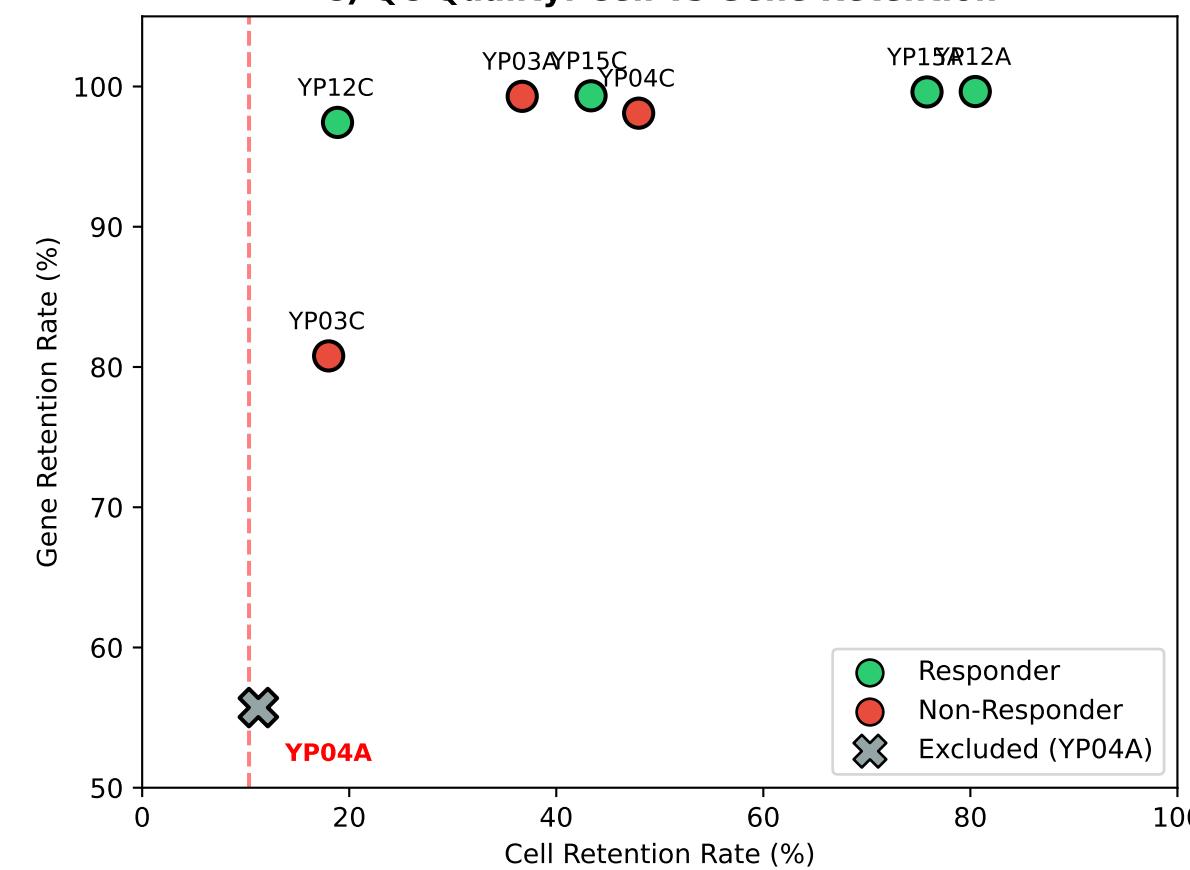
A) Cell Count Before and After QC



B) Cell Retention Rate After QC



C) QC Quality: Cell vs Gene Retention



D) Exclusion Rationale

SAMPLE EXCLUSION RATIONALE

EXCLUDED: YP04A (Patient YP04, Pre-treatment, Non-Responder)

STATISTICS:

- Cells before QC: 1,194
- Cells after QC: 134
- Retention rate: 11.2%
- Gene retention: 55.7%

COMPARISON TO OTHER SAMPLES:

- Other samples range: 863 - 1,914 cells
- Other retention rates: 18.0% - 80.5%
- YP04A is 1.6x below the next lowest

EXCLUSION CRITERIA:

- Minimum cells required: 500
- YP04A has only 134 cells (27% of threshold)

DECISION:

YP04A was excluded due to insufficient cells for reliable statistical analysis. With only 134 cells, spatial statistics and cell type proportion analyses would be underpowered and potentially misleading.

NOTE: YP04C (Post-treatment from same patient) was retained with 1,914 cells, allowing partial representation of patient YP04.