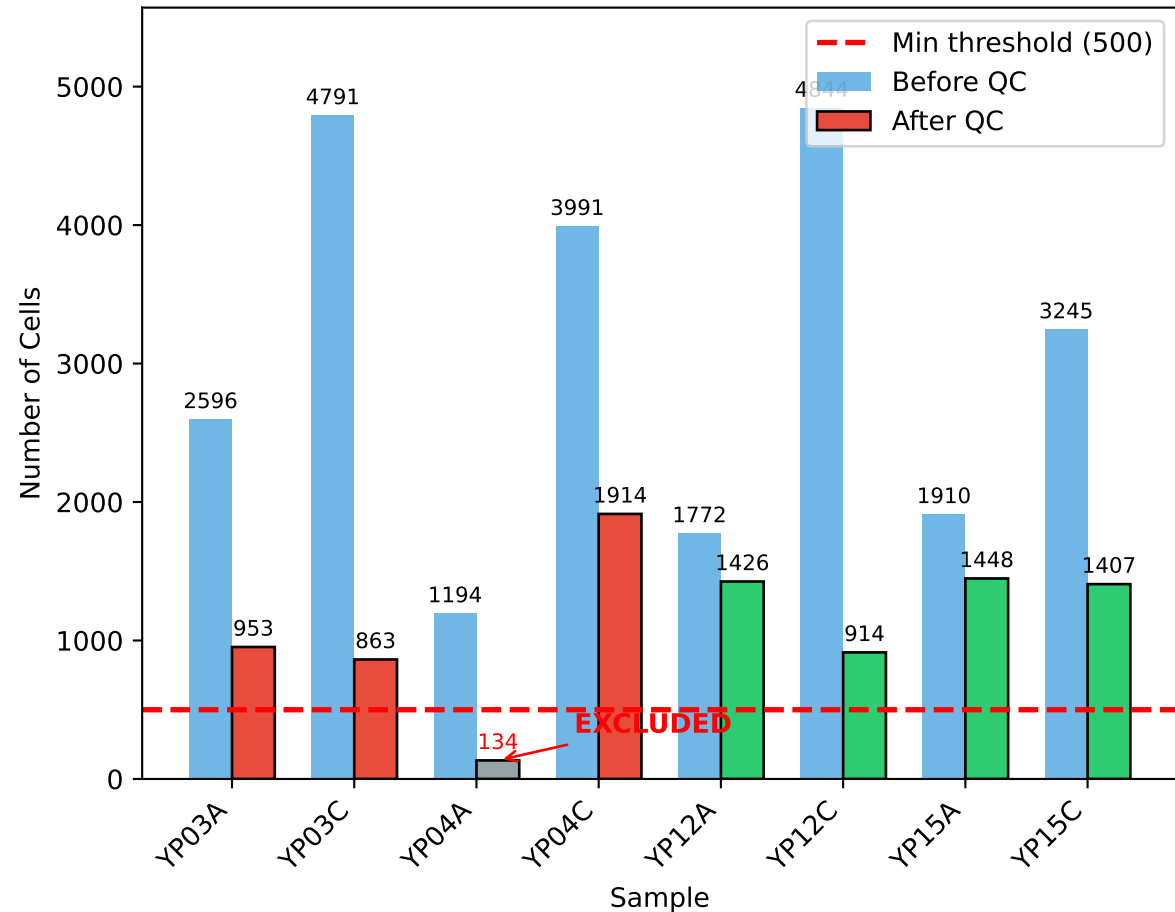
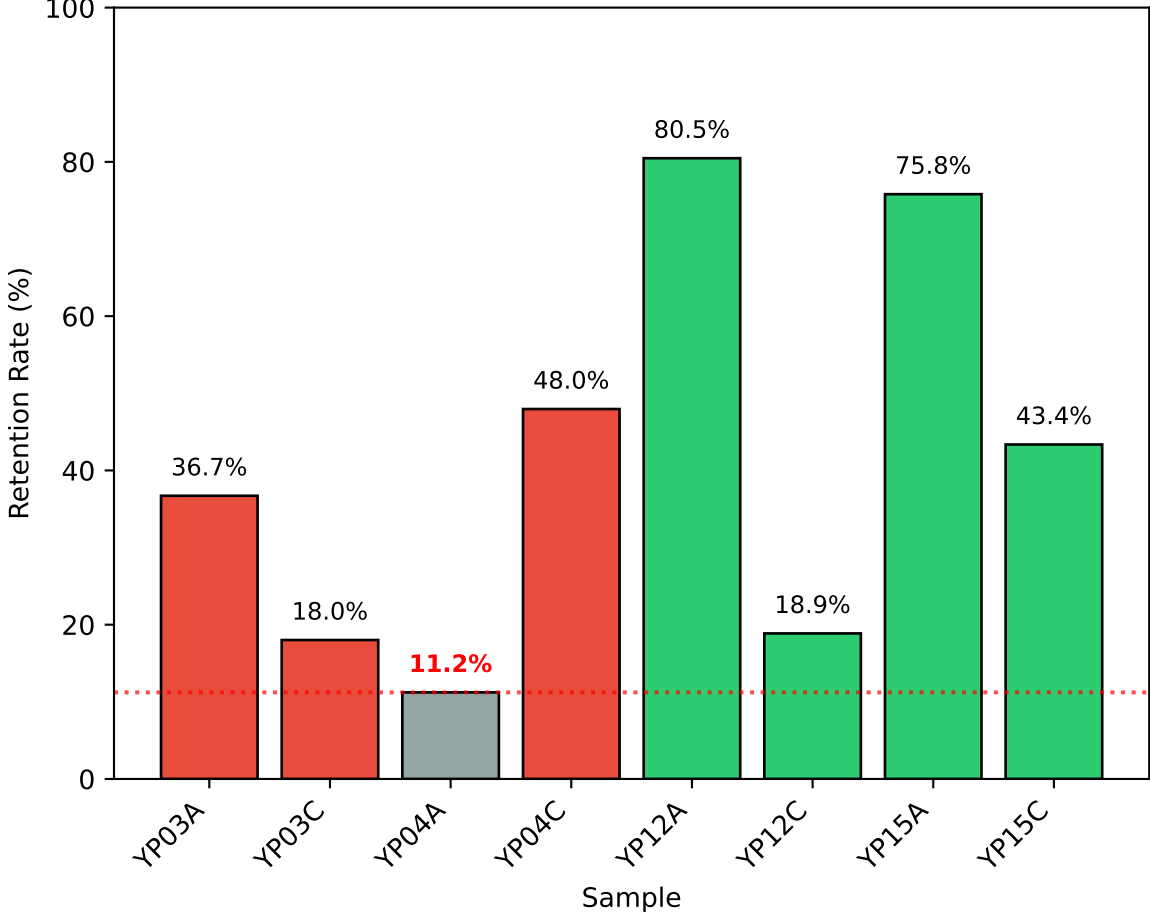


**Figure 0: Sample Exclusion Documentation**  
(YP04A excluded due to insufficient cells after QC)

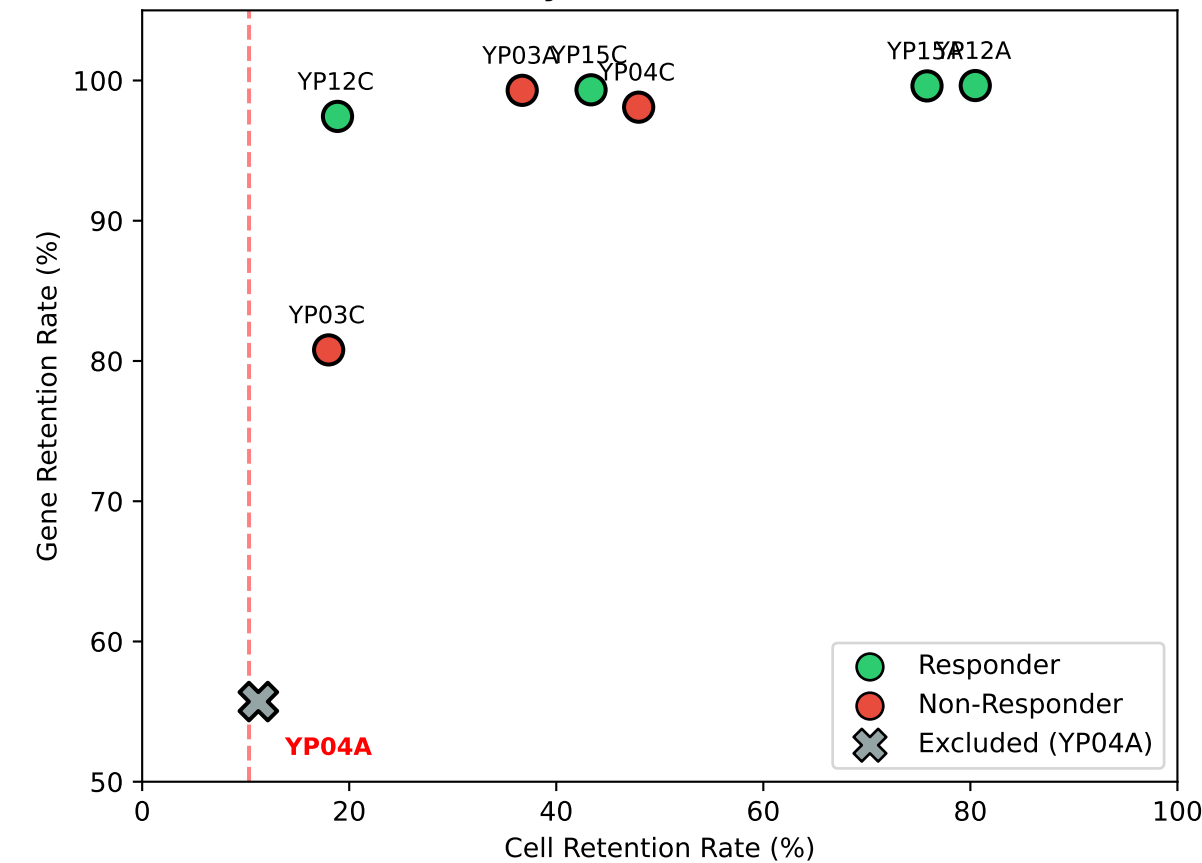
**A) Cell Count Before and After QC**



**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.