## catcheR filtercatch

## Chose thresholds for UMIs per UCI and percentage of UMIs



Determine valid UCIs

UMIs of top UCI / UMIs of second top UCI > 5



Determine valid cells (with only 1 valid UCI)

**Annotated** 

count matrix





Filtered cell list

Count matrix



Cells with no valid UCI



filter for cells containing empty plasmid



Count matrix

Gene expression matrix of empty cells



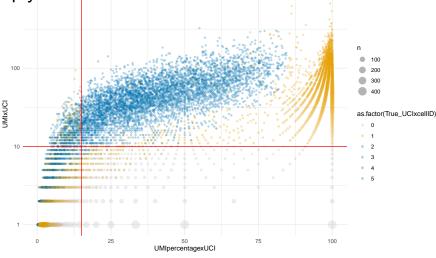
Add matrix of annotated cells

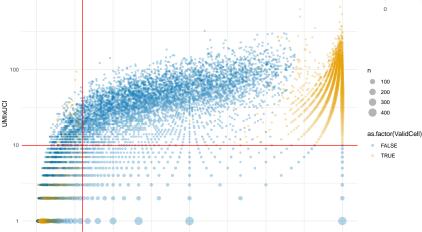
Complete annotated count matrix with also empty



Two-dimensional plots showing the distribution of the percentage of UMIs supporting a UCI over the total UMIs of UCIs in the same cell and the distribution of the number of UMIs supporting a UCI.
Selected thresholds of 10

Selected thresholds of 10 UMIs and 15% are shown.





UMIpercentagexUCI

Above, colors represent the number of robust integrations in the cell: grey for cells with no robust integration, yellow for cells with one robust integration and blue for cells with multiple integrations.

On the left, colors represent if the cell integration is part of a valid cell or of a cell that will be filtered out.