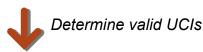
catcheR filtercatch

Choose thresholds for UMIs per UCI and percentage of UMIs



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



Determine valid cells (with only 1 valid UCI)





Filtered cell list

Count matrix





Annotated count matrix



Cells with no

valid UCI

filter for cells containing empty plasmid





Count matrix

catcheR nocatch

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 UMIs and 15% are shown.

as.factor(True UCIxcellID) UMIpercentagexUCI as.factor(ValidCell)

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.

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