

Downsample Cells

The **Downsample Cells** task is used to randomly downsample the number of cells in a single cell data set. This task can be used to reduce the size of large single cell datasets to small and manageable sizes for quick analysis. Another use case for this task is for a project with multi samples with each sample having different number of cells. Downsample Cells can be used to randomly select an equal number of cells for all the samples in the project. For the default setting, the sample with the minimum number of cells is used with the number of cells in that sample set as the number of cells to be selected in the other samples. However, this default setting can be changed to a preferred number by the user. If the number selected by the user is greater than the number of cells in one or more samples, those samples will not be downsampled and all the cells in those samples will be returned. If the number selected by the user is greater than the number of cells in all the samples, then none of the samples will be downsampled.

To run a downsample task first click on a single cell count data node. Go to the *Filtering* section and select **Downsample cells** task.

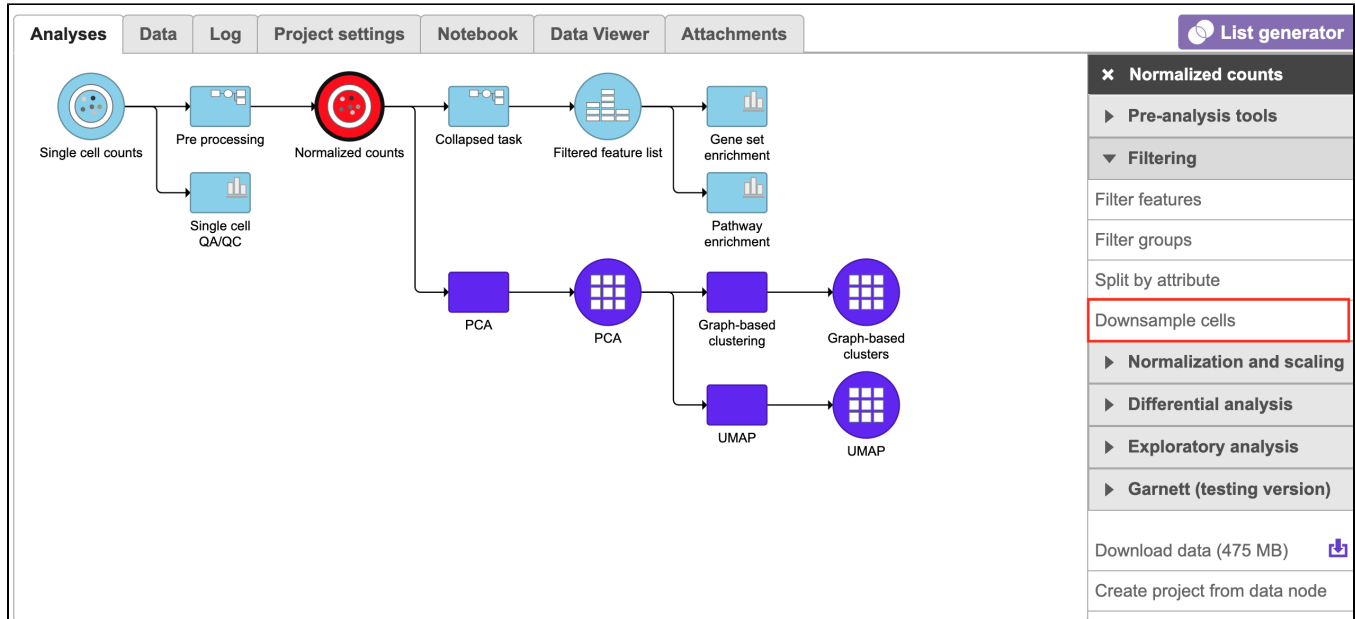


Figure 1. Single Click on Data node to be downsampled (red) and select the Downsample cells task (red rectangle) from the filtering menu

Clicking on the *Downsample cells* task will lead to a dialogue menu with the number of cells to be downsampled set to the minimum number of cells in the project. In the figure below, the minimum number of cells in any of the samples was 2658 and this is used in the default settings. Click **Finish** to run the task.

The screenshot shows the 'Downsample cells' dialog box. The title bar reads 'Home > Immune Cell Analysis of Supercenarians > Downsample cells'. The main content area has the text 'Downsample cell counts per sample to' followed by an information icon. Below this, there are two radio buttons: 'Counts' (selected) and 'Percentile'. A numeric input field shows the value '2658'. At the bottom, there are two buttons: 'Back' and 'Finish'.

Figure 2. Downsample cell number to 2658 for each sample in project

Additional Assistance

If you need additional assistance, please visit [our support page](#) to submit a help ticket or find phone numbers for regional support.



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