Export

- Convert to h5ad files

To export single cell data node, we first need to convert to a file either h5ad, or zip for count matrix in order to download. The tasks are in Conversion section on the pop-up menu

Convert to h5ad files

An .h5ad file is a .hdf5 file with some additional structure specifying how to store AnnData objects. The tool *Export to h5ad files* enables the user to export count matrix data from Partek Flow and add all the sample-level and cell-level attributes.

To start, select a count matrix-type data node (e.g. *Single cell counts, Filtered counts, Normalized counts, SC scaled data, Integrated counts, Classify result, Annotated counts*) and the *Conversion* section will appear in the *Toolbox*. Expand it and select **Export to h5ad files** (Figure 1).
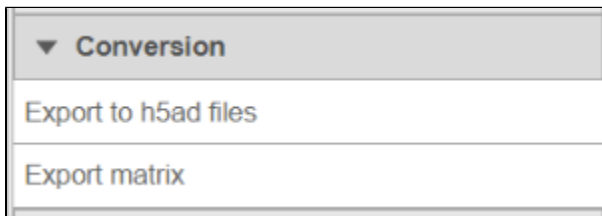

Figure 5. Export section of the Toolbox

On the setup dialog, you can specify optional annotations to be added to the cells: *PCA* (coordinates), *t-SNE* (coordinates), *UMAP* (coordinates), and *Graph-based cluster* (cluster identifier) (Figure 2). If no optional annotation is selected, only the information present in the selected count matrix node will be included in the .h5ad file.
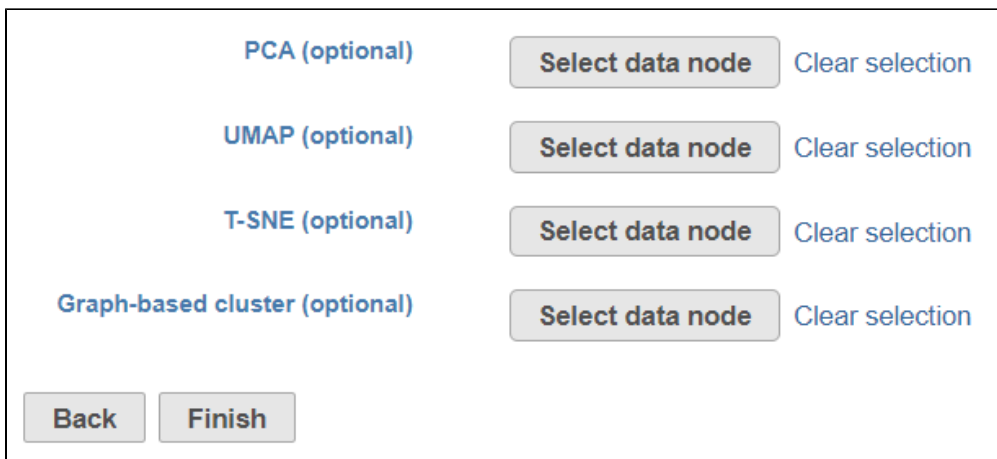

Figure 6. Adding optional cell-level annotation while exporting a .h5ad file

Clicking on a **Select data node** button opens up the pipeline preview (Figure 3). Partek Flow will highlight the data nodes with the same number of cells as the selected count matrix node, and information from one of those nodes can be added to the .h5ad file. Left-click on a node and click **Select** to confirm (or **Cancel** to close the preview). Once you pick the optional pieces of information, push Finish to run the *Export to h5ad files* task. You can select only one node per type (e.g. only one PCA node).
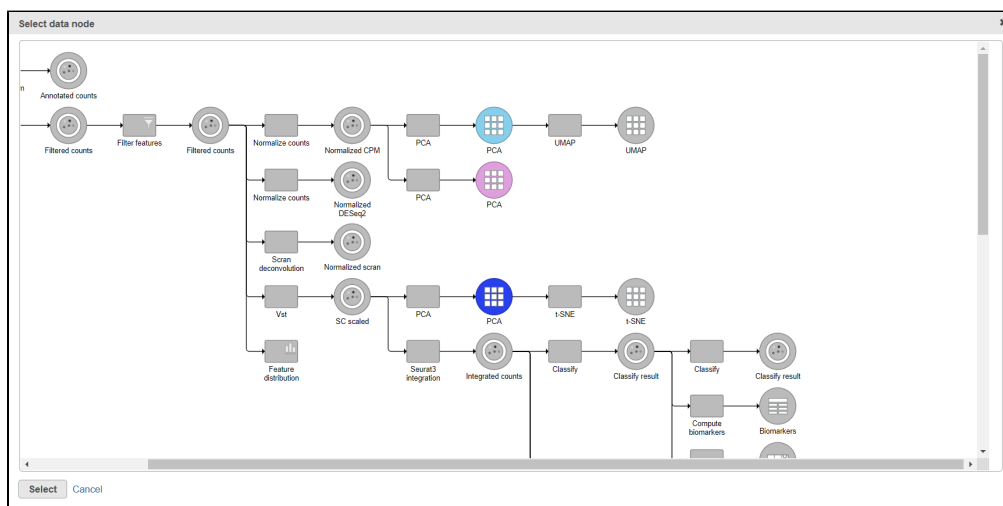
Figure 7. Select data node dialog shows preview of the current pipeline. Highlighted data nodes are available for selection

Export to h5ad files task produces a *H5ad file* data node (Figure 4). To download the data, select the **H5ad file** data node and then select the **Download data** link in the *Toolbox*. The .h5ad file will be downloaded to the local computer (default file name: *<project_name>_exported.h5ad*).
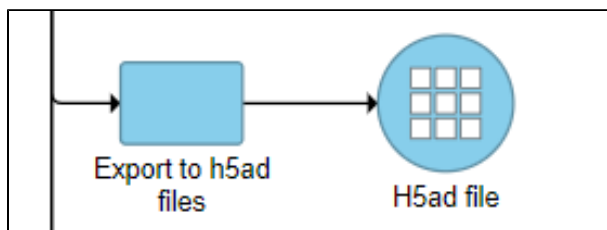

Figure 8. Export to h5ad files task produces a H5ad data node

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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