

Updates since Beta:

Licensing/Authentication

- FlowJo 11 now employs BD Access Portal (BD AP) version 2.2 for licensing and authentication.

Performance/Memory Management

- Various performance improvements have been implemented throughout the application.
- Memory usage will grow proportionally to the size of FCS files loaded. This growth is essentially unbounded.
- S8/A8 data handling is significantly improved.

Compensation / Unmixing

- OneTouch Unmixing has been removed.
- Clean up gate adjustments have been returned to one node at a time until that tool can be improved. We recommend simply redrawing a cleanup gate if it needs adjusting.
- Editing of a Spectral Unmixing matrix can now be performed using a square “Adjustment Matrix” where there is a 1 to 1 relationship between fluorochromes and readout channels.
 - The Adjustment matrix is applied on completed matrices in addition to the existing compensation/unmixing matrix so that the original matrix is preserved.
- The spectral plot now shows the positive population even if auto-spill is in use. For this reason, a positive gate is drawn even when auto-spill is in use.
- Compensation/unmixing is now stateful, so you can exit to the graph gallery to adjust transforms and return to the wizard without losing progress.
- Non-compensation groups can now be selected within the wizard for previewing a matrix.

Graph Gallery and Gating

- Graphs have been adjusted to display the parameters used for creating a gate even if a parameter set lacking those parameters is currently selected.
- Frequencies are now displayed on plots.
- Ordering of quad gates now keeps a set of quads together.

Platforms

- The X-shift algorithm has been adjusted to match the behavior of the x-shift plugin available for v10.
- X-shift clusters are now auto-gated.
- The percentage of events being used to calculate X-shift or tSNE compared to the total population is now displayed.

Tables

- Population hierarchy selections are now respected for the addition of non-default stats.

Charts

- Error bars have been adjusted for negative values.

Reports

- Default canvas size is now a large custom format.
- A graphical indicator has been added to show which pages have results.
- Legend placement and handling has been updated to be below the plot and more editable..
- Organization of controls in properties panel has been modified to bring more frequently used tools to the top of the panel.
- The ability to save a batched report as a new source report has been added.
- Heat map plots will display without a blue background.

Image Wall

- The image wall has been moved to display in the graph gallery, allowing for more room for images.
- Image coloring has been updated to be brighter to match Chorus.
- Image parameter names have been corrected to be in the proper order.
- Sorting images by selected parameters has been added.
- The ability to show/hide placeholders for cells without images has been added.

Preferences

- Cytometer preferences have been added.
- S8/A8 preferences for default parameter displays and default parameter sets have been added.
- Preferences for resource management have been added.

- Preferences for displays have been added, including the ability to specify whether a frequency is shown as a percentage or a decimal.

Known Issues:

- Only one FlowJo v11 workbench file can be open at a time.
- Error toasts do not close automatically when switching workbenches.
- Running QC on a sample w/o a time parameter produces poor results.
- Table columns cannot be reordered.
- Charts will not automatically update if the underlying table is updated.
- Selecting a derived parameter node will always bring you back to the graph context.
- QC fails on ID7000 data.
- Headers in tables added to Reports do not wrap text, making tables very wide.
- Undoing the creation of a table or chart in Reports leaves an empty element.
- Too many nodes are used to create cleanup gates in compensation, making it difficult to adjust a gate. Workaround is to just start drawing a new gate, as it will replace the old gate.
- Derived parameters cannot be renamed.
- Location preferences are not used in graph window stats.
- The bottom rows in a compensation matrix can be hard to see/edit.
- Renaming a parameter in the compensation wizard before creating a matrix can break the spectral plot.
- Changing the width of a table column in the meta data manager is not permanent. It will undo if you change another width.
- TSNE calculations can occasionally enter a bad state and cycle for a longer than expected time and dominate resources on your computer.