BD FACSDiscover S8 Cell Sorter Preferences Recommendations

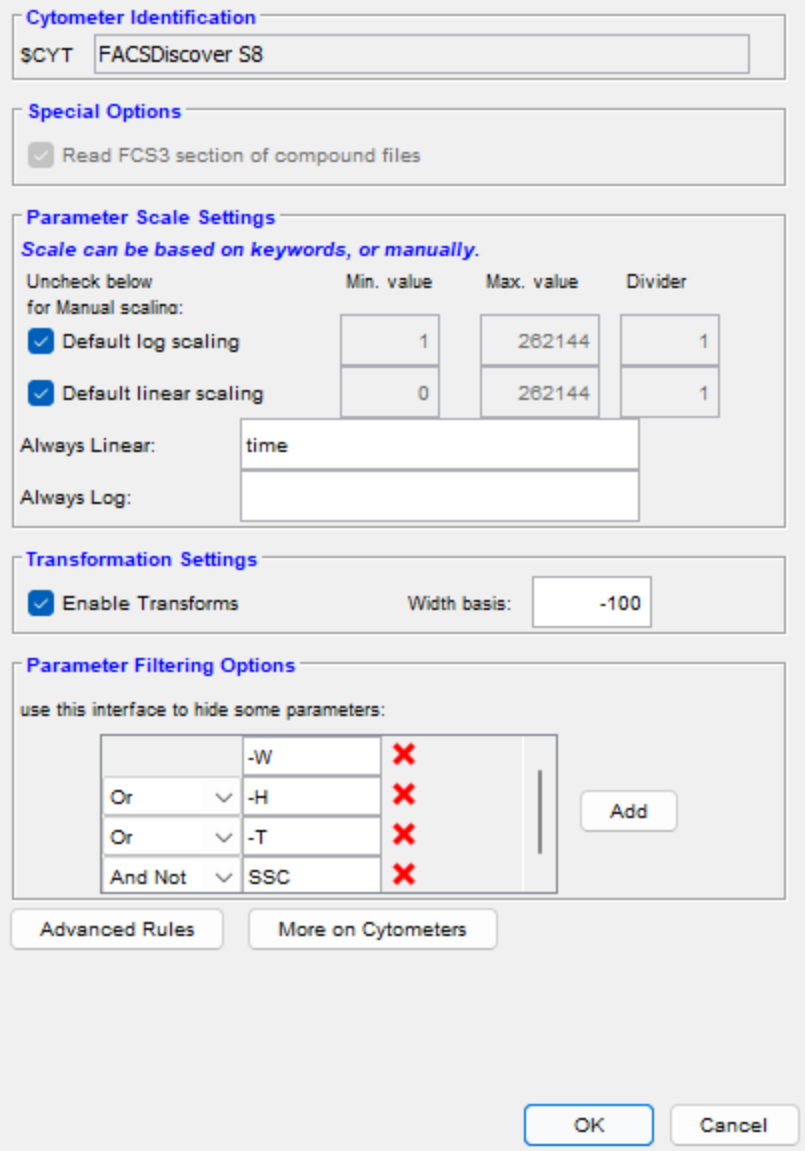
The BD FACSDiscover™ S8 Cell Sorter is a new cytometer with a wide range of capabilities leading to special preferences recommendations.

The BD FACSDiscover™ S8 Cell Sorter acquires traditional fluorescent parameters as well as a set of imaging parameters. There are a handful of recommendations we can offer to make the use of this data easier in FlowJo version 10.x. Preferences are accessed through the heart icon in the upper righthand corner of the workspace. The preferences for specific cytometers will be found under the Cytometers tab/button in the bottom row of options.

To set the preferences for the BD FACSDiscover™ S8 Cell Sorter, find the name in your list list of cytometers and select it.

Cell view lens you tube

https://www.google.com/search?q=using+flow+jo+and+image+analysis+BD+FACS+discover+S8&rlz=1C1CHBF_enCA905CA906&oq=using+flow+jo+and+image+analysis+BD+FACS+discover+S8&gs_lcrp=EgZjaHJvbWUyBggAEEUYOdIBCTE4NjM4ajBqN6gCALACAA&sourceid=chrome&ie=UTF-8#fpstate=ive&vld=cid:10d72652,vid:1CRc05nTdMc,st:0

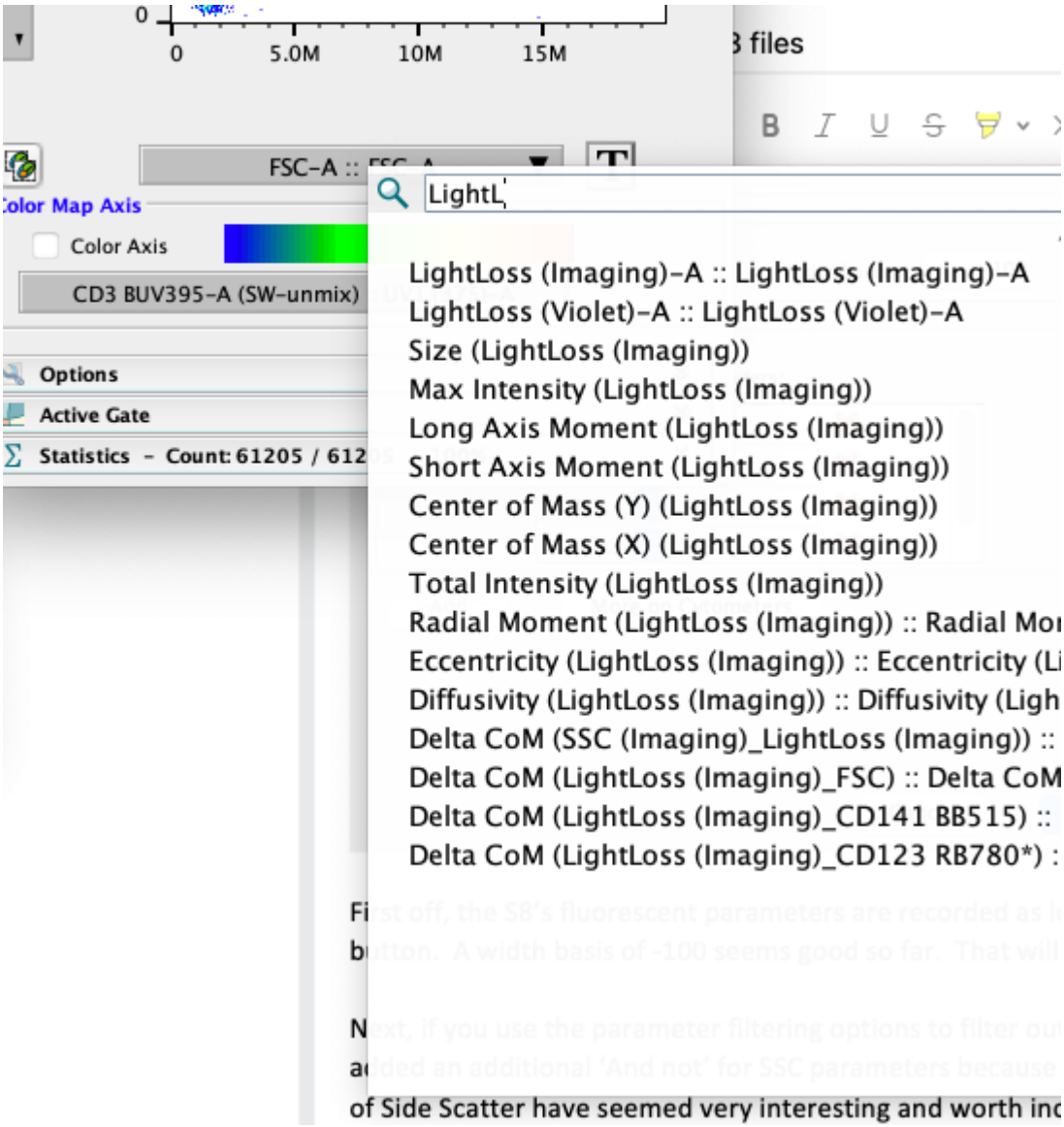


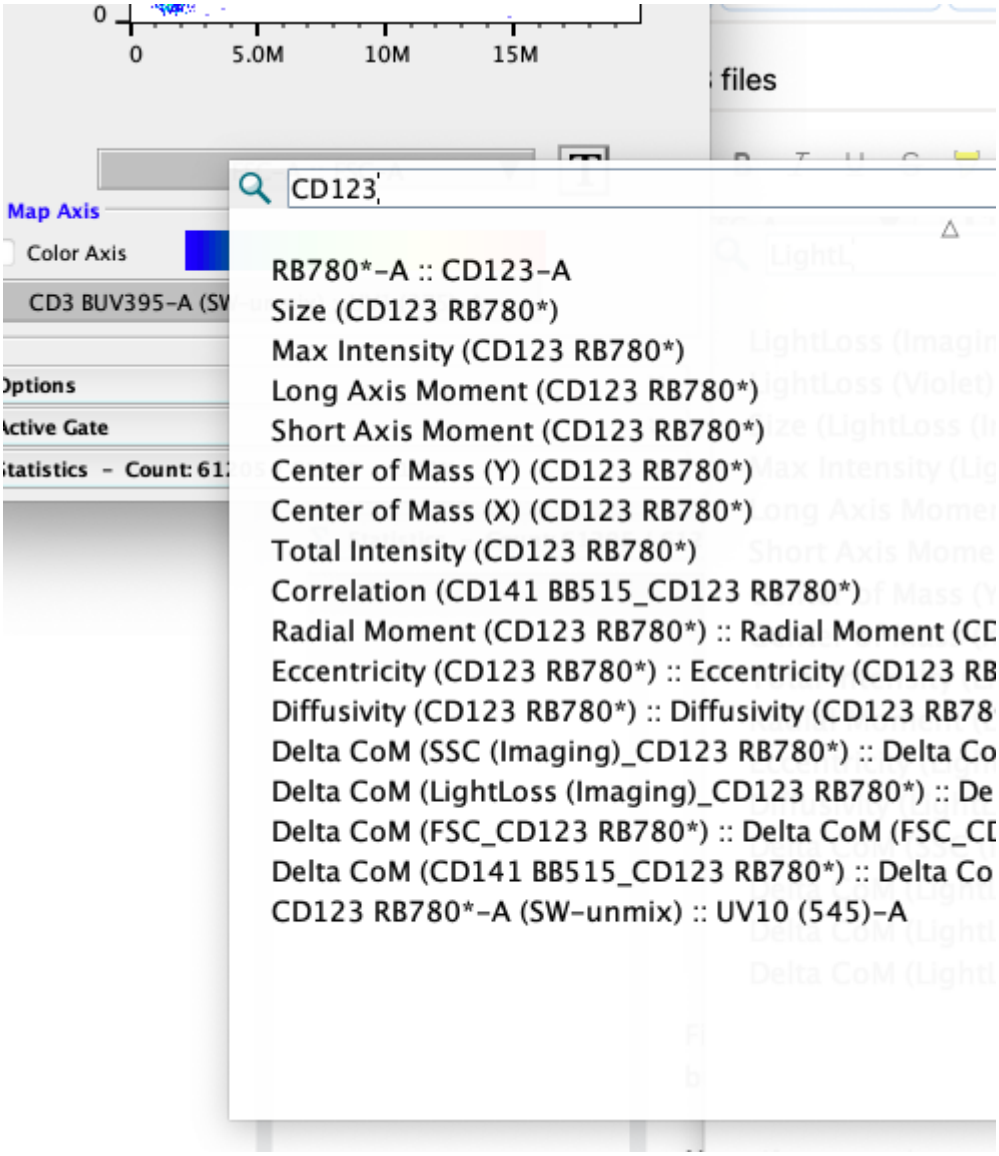
The BD FACSDiscover™ S8 Cell Sorter fluorescent parameters will specify a Log transform function by default. We recommend checking the box for 'Enable Transforms' and setting a width basis of -100 to display the data on a biexponential scale, with a linear region of 100 units on either side of zero.

Next, we recommend using the parameter filtering options to filter out any parameter with -W, -H, or -T. These are each different methods of calculating a measure of fluorescent intensity from the measured electronic pulse. The -A parameter, which is the area of the pulse, is the most complete measurement, and -A is commonly the only measurement used for subsequent data analysis, making the other options redundant. Filtering them out pulse width (-W), height (-H), and time to peak (-T) can cut the displayed parameter list by 75%. However, alternate measures of some parameters can be useful for diagnostics and identifying single cells, so exempting the additional measures of side scatter seems useful and can be done by choosing 'And not' SSC.

***IMPORTANT NOTE: Changes to Cytometers Preferences will only affect data loaded into a new workspace.**

Finally, the search tool in the parameter list becomes of paramount importance with these data. Typing in one of the image parameters (or alternatively one of the target antigen labels or specific parameter names), will limit the displayed parameters to those that partially match the search criteria. The example images below depict parameter lists after searching for either all of the light loss measurements (LightL), returning 16 imaging derived measurements, or searching for CD123, returning the 16 image derived measurements of CD123 and the one florescent measure.




0
0
5.0M
10M
15M
files
Map Axis
Color Axis
CD3 BUV395-A (SW
Options
Active Gate
Statistics - Count: 61
CD123
RB780*-A :: CD123-A
Size (CD123 RB780*)
Max Intensity (CD123 RB780*)
Long Axis Moment (CD123 RB780*)
Short Axis Moment (CD123 RB780*)
Center of Mass (Y) (CD123 RB780*)
Center of Mass (X) (CD123 RB780*)
Total Intensity (CD123 RB780*)
Correlation (CD141 BB515_CD123 RB780*)
Radial Moment (CD123 RB780*) :: Radial Moment (CD
Eccentricity (CD123 RB780*) :: Eccentricity (CD123 RB
Diffusivity (CD123 RB780*) :: Diffusivity (CD123 RB78
Delta CoM (SSC (Imaging)_CD123 RB780*) :: Delta Co
Delta CoM (LightLoss (Imaging)_CD123 RB780*) :: De
Delta CoM (FSC_CD123 RB780*) :: Delta CoM (FSC_CD
Delta CoM (CD141 BB515_CD123 RB780*) :: Delta Co
CD123 RB780*-A (SW-unmix) :: UV10 (545)-A