

FACSanadu

in brief

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View manipulation

You can speed up the software by only viewing the first N events

The screenshot shows the FACSsanadu software interface. On the left, there is a 'Dataset' panel with the file 'rp5-larva-PMT530-day8-2010-09-11.dat' selected. Below it is a 'View' panel showing 'root: EXT / TOF' as the current view. Further down are 'Gate' and 'Color' settings, and a 'Prof.Channel' section. The main window displays a scatter plot of 'EXT' vs 'TOF' with a 'root' gate highlighted. A context menu is open over the 'root' gate, with 'Set source population' selected. Annotations include: 'List of available views' pointing to the 'View' panel; 'Create a new view' pointing to the 'New view' button; 'Left-click on an axis for options' pointing to the 'EXT' axis label; and 'Source population: Only show observations from this gate' pointing to the 'Set source population' menu item. A 'Show max events: 100000' checkbox is also visible in the top right of the plot area.

List of available views

Create a new view

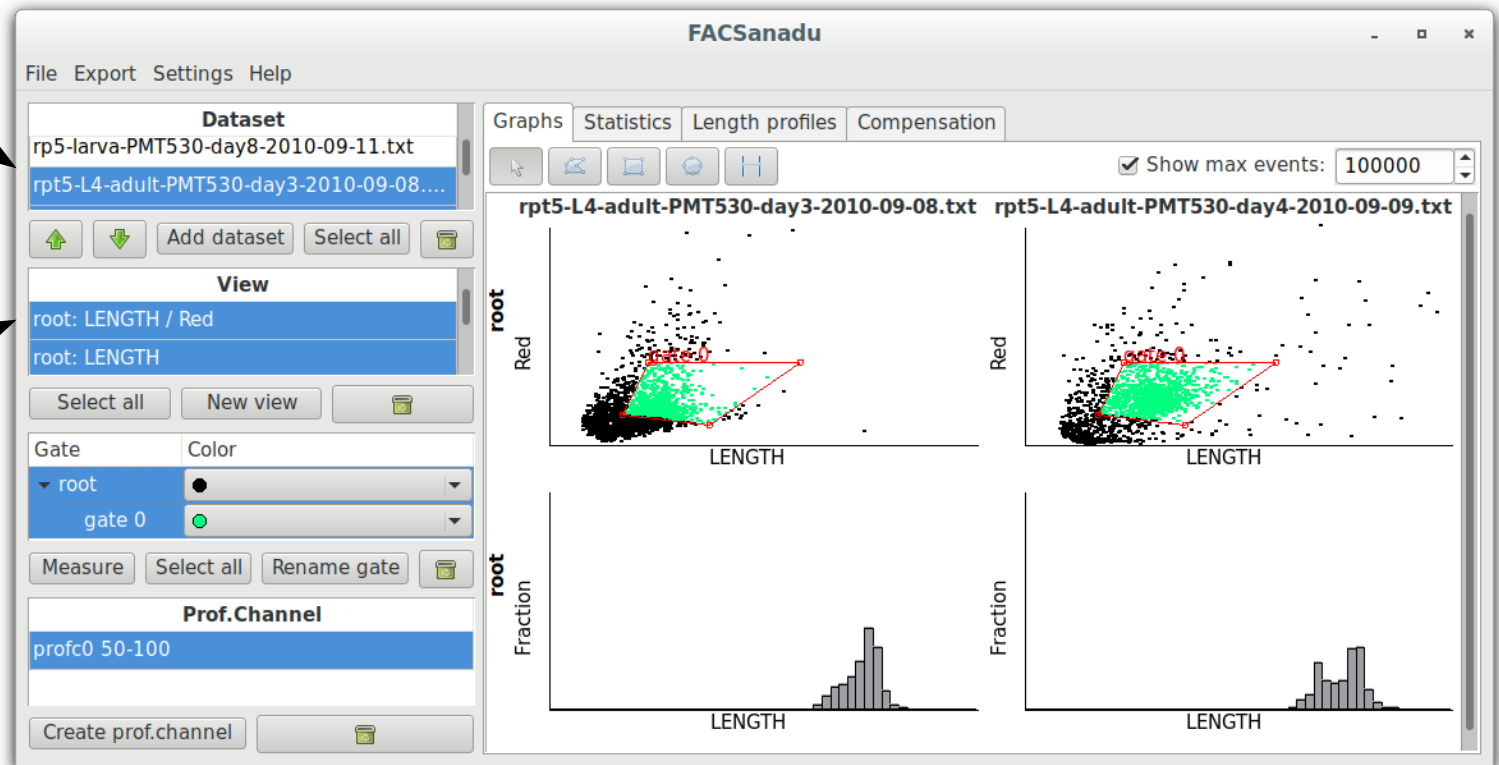
Left-click on an axis for options

Source population: Only show observations from this gate

Multiple views

Select one or more datasets to view. Use ctrl+ and shift+ left button to select several

Select one or more views



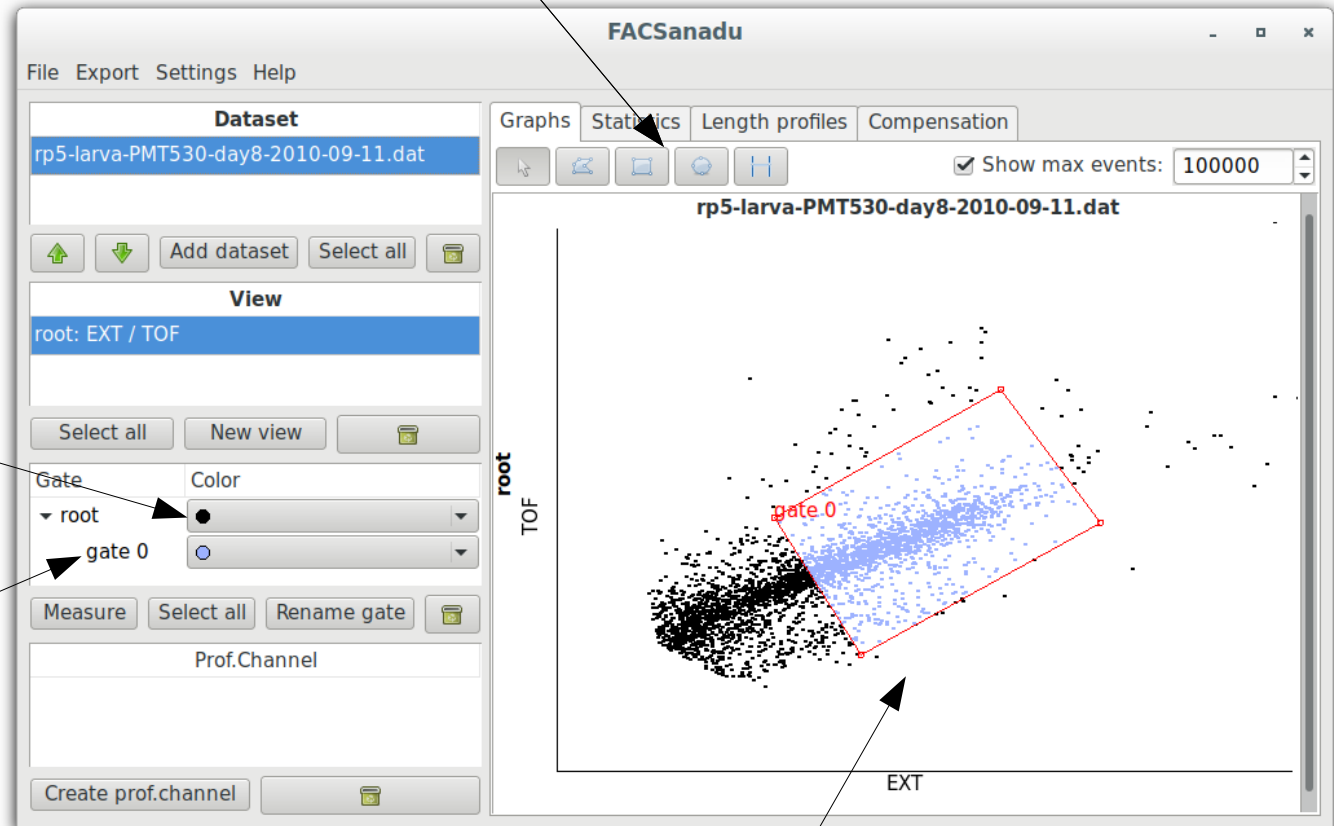
Here we display 2 datasets * 2 views

Creating gates

First select a tool: Polygon, rectangles, ellipses and ranges. For histograms you can only use ranges

Change color and name here

Gate is always made a child of currently selected gate



Draw a polygon by clicking in each corner. Finish by double-clicking

Gating statistics

Data is show for each dataset & each gate/measure

Select one or more datasets to view

The screenshot shows the FACSanadu software interface. On the left, there is a 'Dataset' list with several files selected, and a 'View' section showing the current gate hierarchy: 'root: FSC-A / SSC-H', 'gate 0', and 'gate 1' (Mean: GFP - 530/30 (488)-A). The main area displays a table of statistics for each dataset. At the bottom, there are checkboxes for 'Show % of parent' (checked) and 'Show % of total', along with an 'Export to clipboard' button.

Dataset	root (parent)	gate 0 (parent)	gate 1 (parent)	gate 1/Mean: GFP - 530/30 (488)-A
Specimen_003_C4_C04_003.fcs	100%	3.15%	3.937%	72.17899875640869
Specimen_003_C5_C05_004.fcs	100%	13.47%	40.17%	395.0999512263783
Specimen_003_C6_C06_005.fcs	100%	24.593%	51.702%	63.59244886396353
Specimen_003_C7_C07_006.fcs	100%	22.703%	52.404%	59.68536464306175
Specimen_003_C8_C08_007.fcs	100%	22.288%	53.328%	60.30858215641753
Specimen_003_C9_C09_008.fcs	100%	20.95%	54.96%	63.166680266936964
Specimen_003_C10_C10_009.fcs	100%	17.83%	55.44%	65.66061587173701

Select one or more gates/measures

Can show observations relative to parent or total (root)

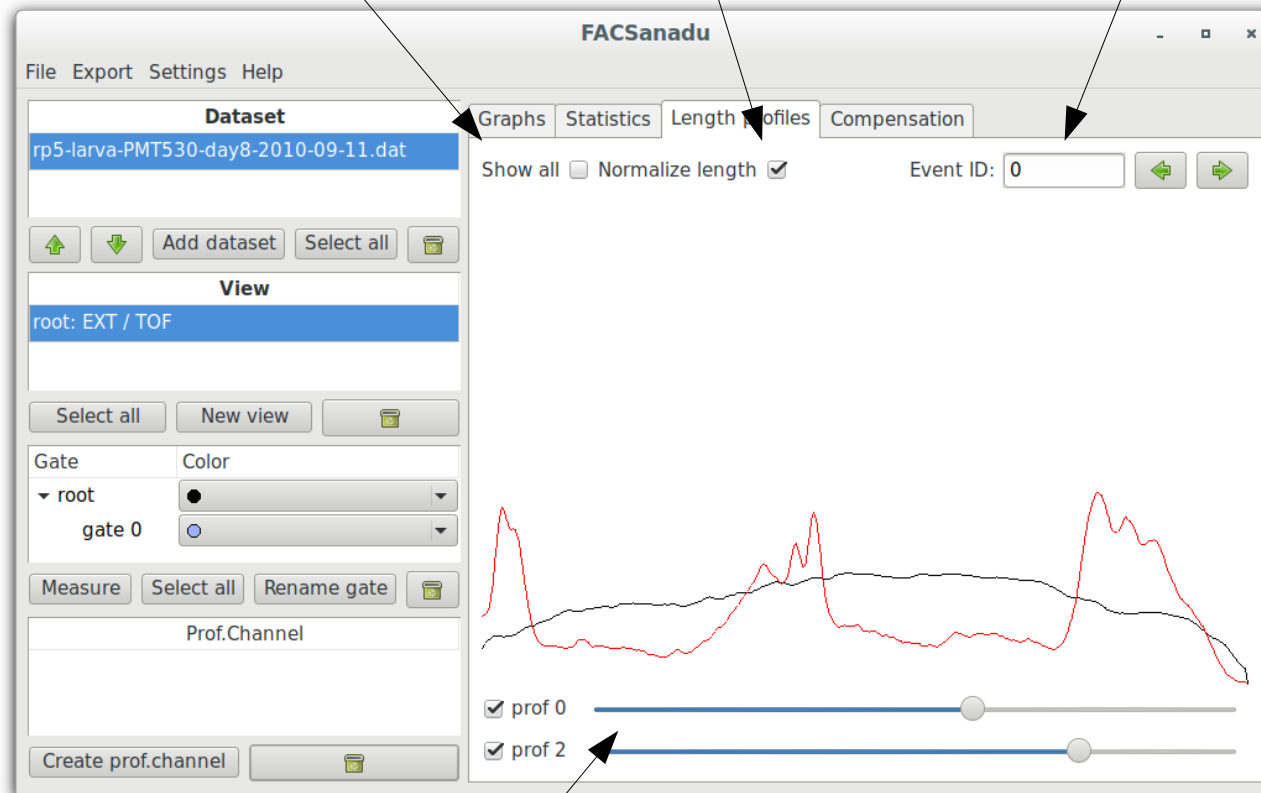
Export data for further analysis. Paste into a spreadsheet program of your choice (or raw text editor)

Viewing COPAS profiles

Get an overview by showing all profiles in current gate

Stretch profiles for comparison

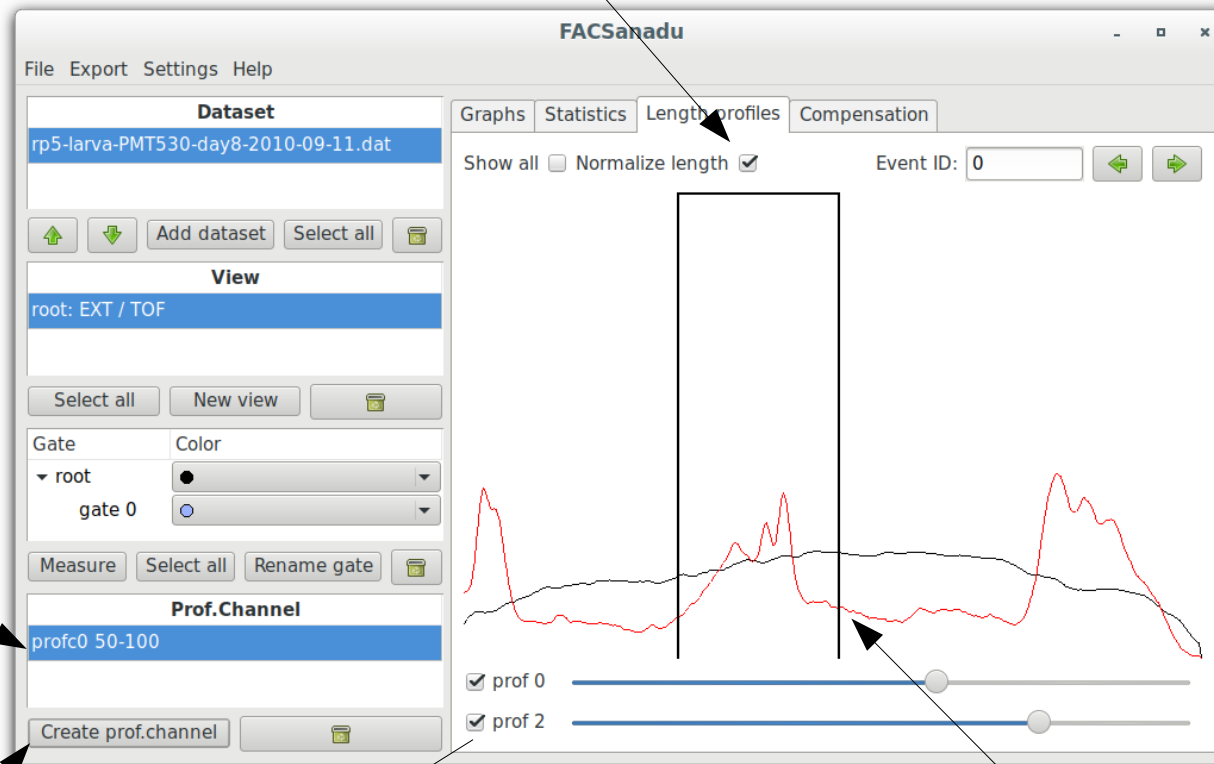
Observation to show



Channels to show and a scaling for each

Measuring in COPAS profiles

Select normalization to perform it prior to integration. Affects currently displayed profile channel



List of profiles, also provided as channels

Create a new profile. **The first currently selected channel will be measured**

Region to integrate, can be adjusted by dragging the ends using left mouse button

Color of gate indicates channel used