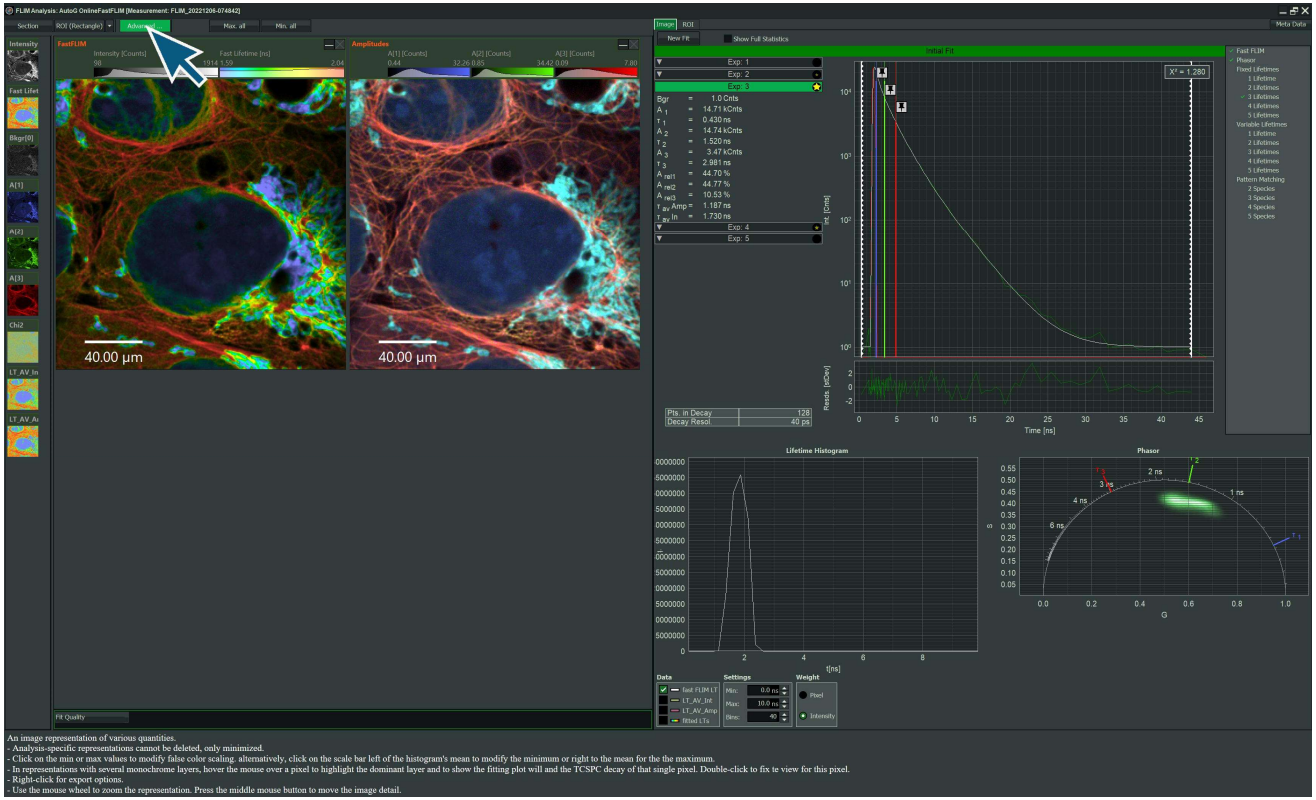
How to select ROIs in NovaFLIM based on parameter - histograms.

I

From Luminosa Software you can shift to NovaFLIM analysis options by pressing the ‘Advanced ’ -button



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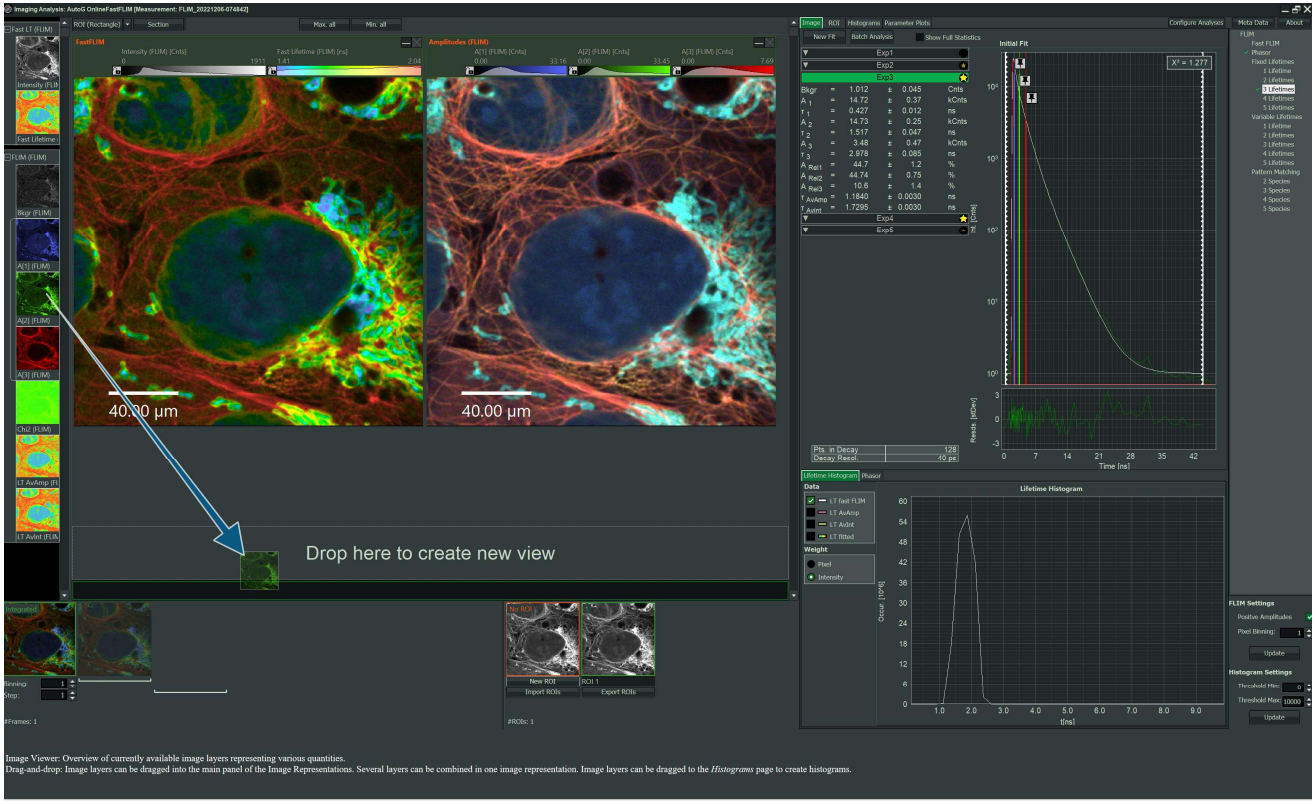
2

On the left-hand side one can see all the available layers. The number of layers and the type of the analysis. New image displays are created simply by dragging the layer to the main area of the window.



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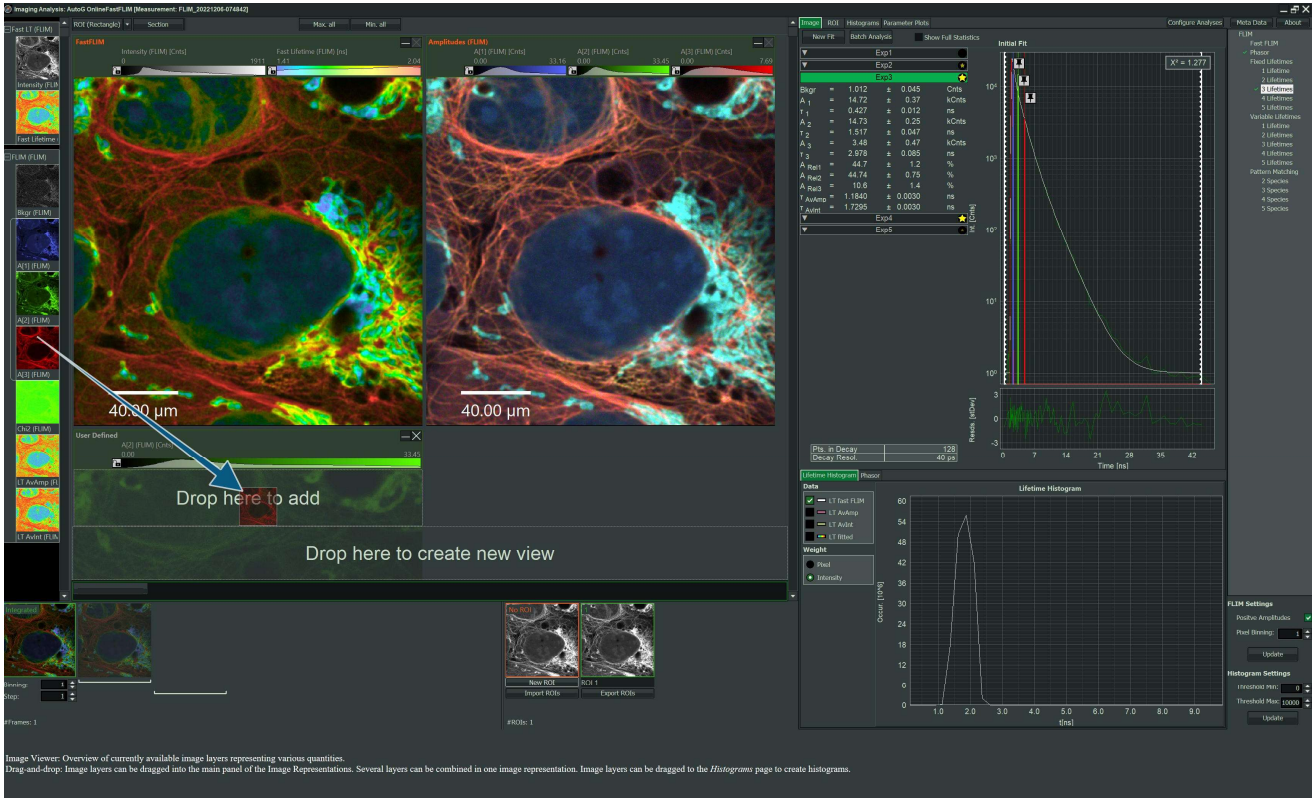
3

Add additional layer in a similar way.



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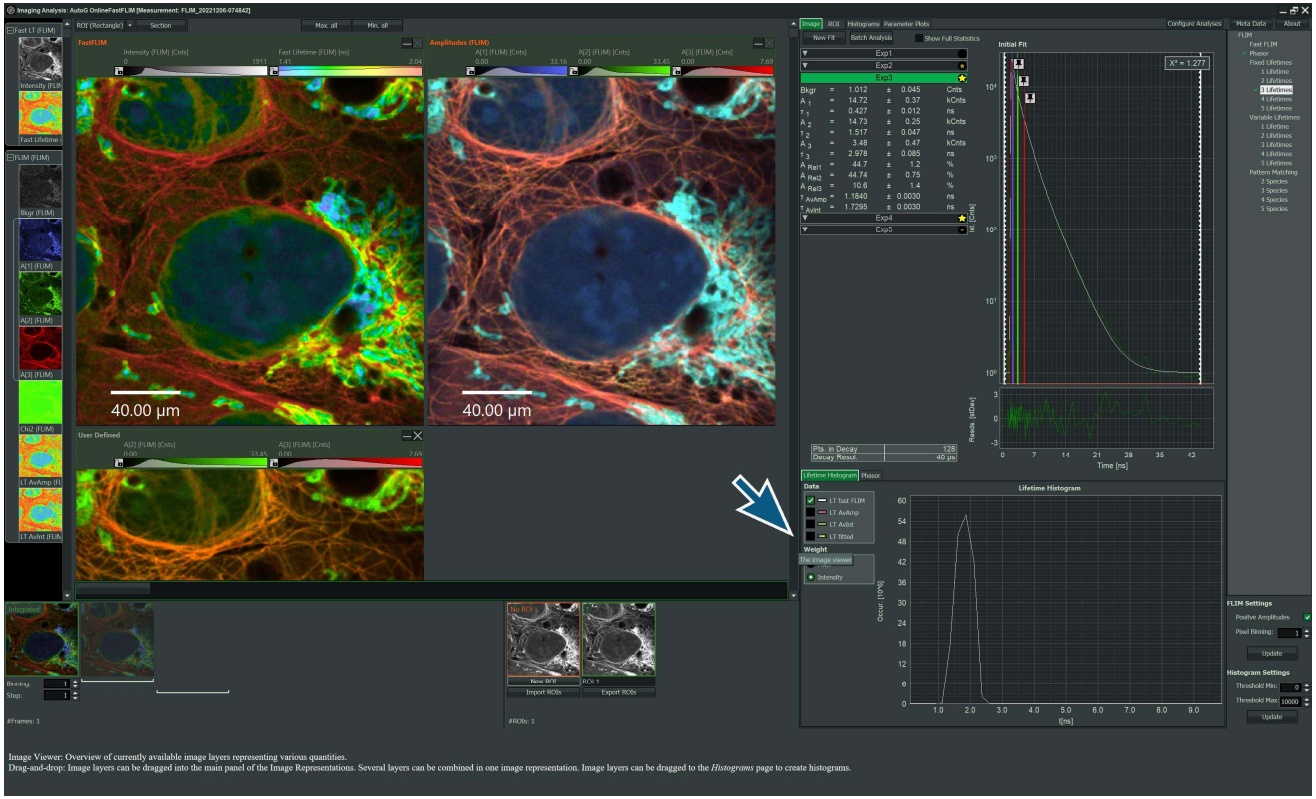
4

Use the scroll bar for reviewing various images.



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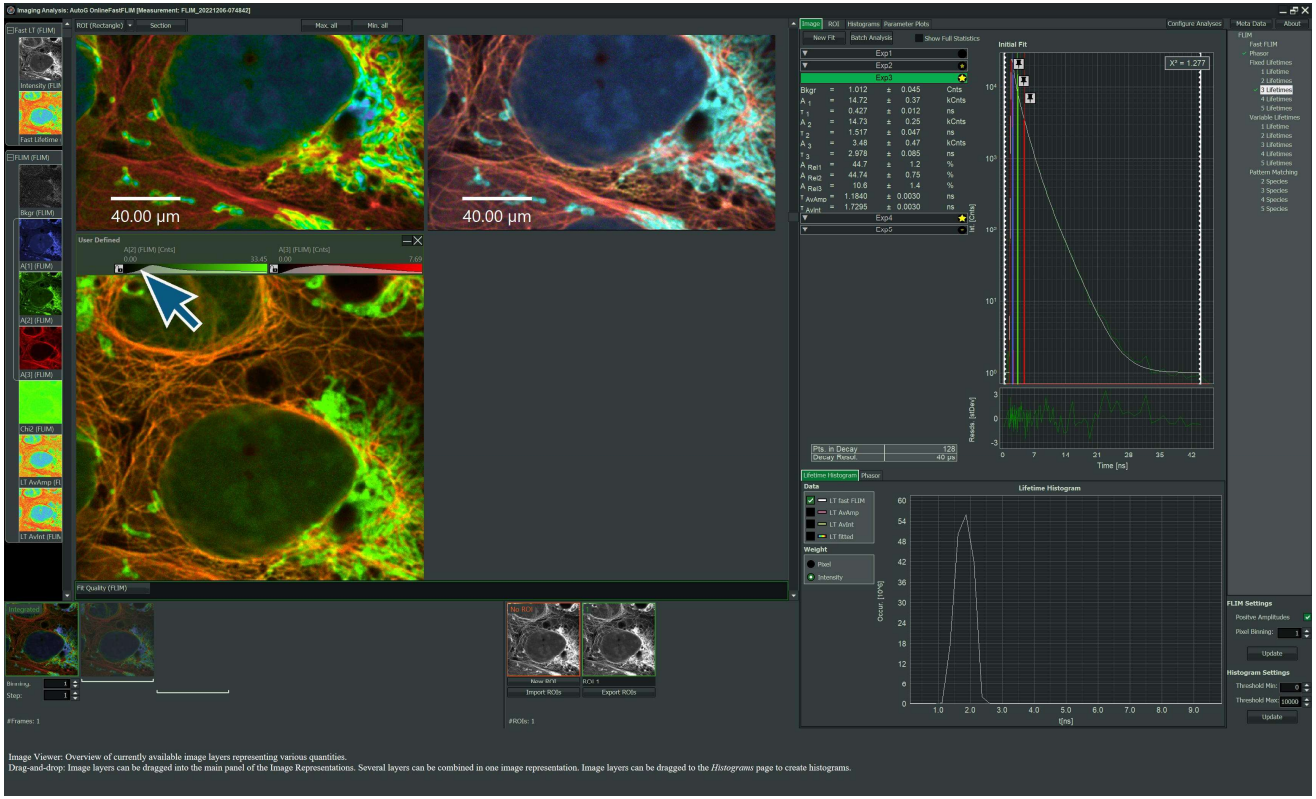
5

Click and drag left or right to adjust contrast of each layer.



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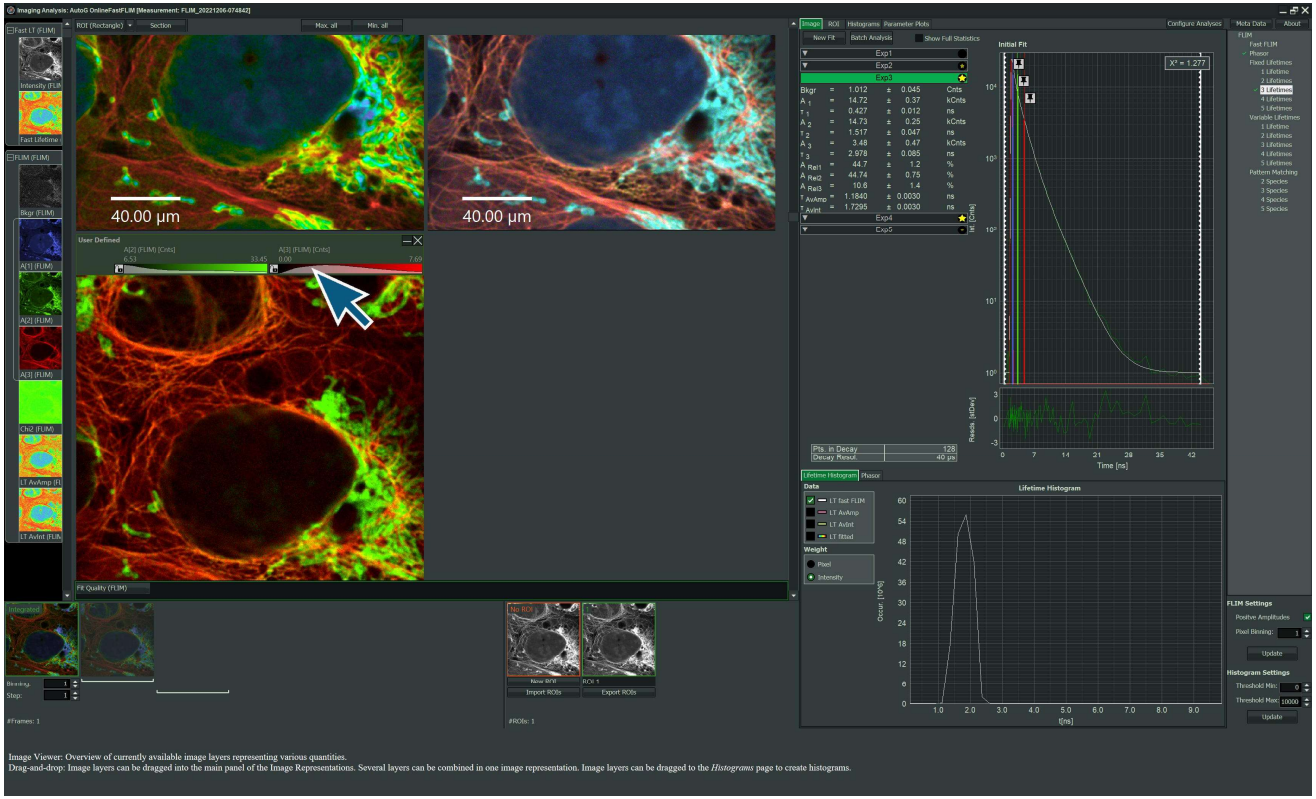
6

By clicking on the colormap and dragging left or right on can adjust the relative levels of the image.



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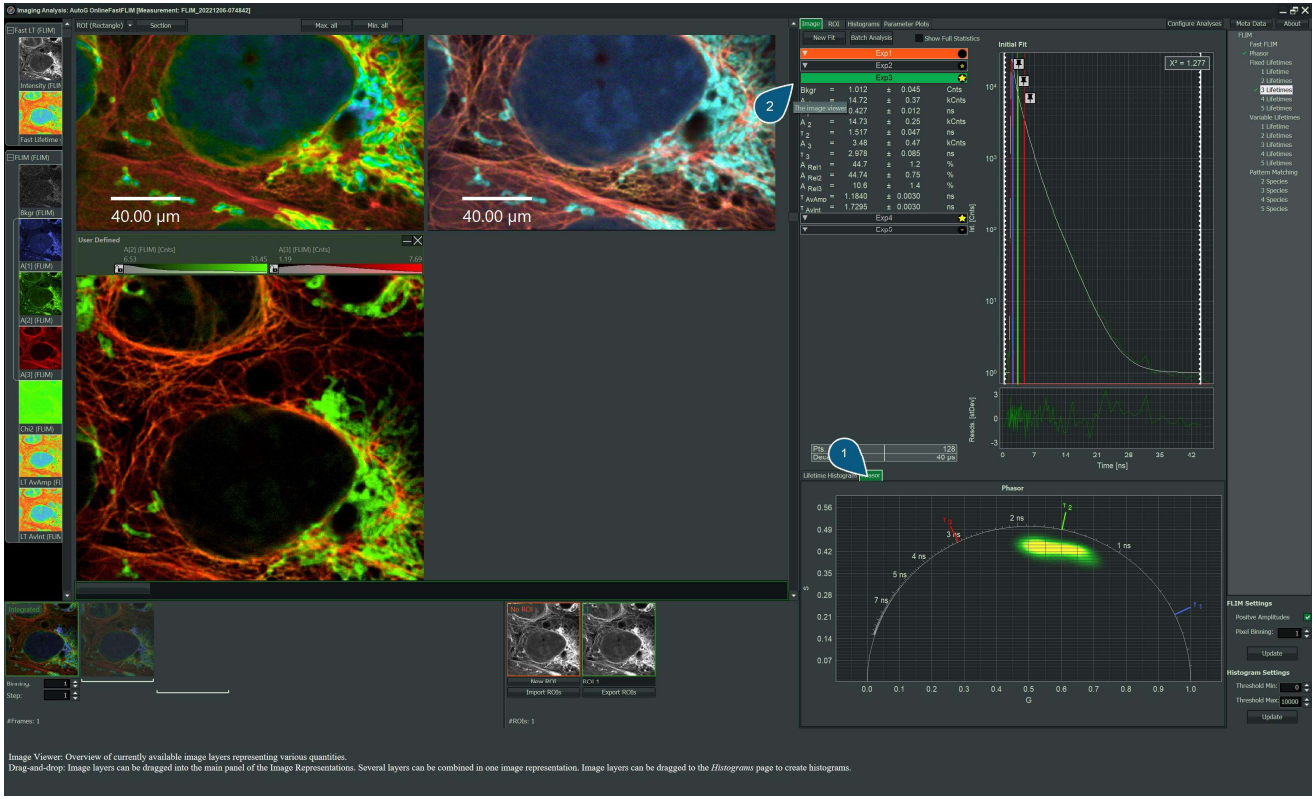
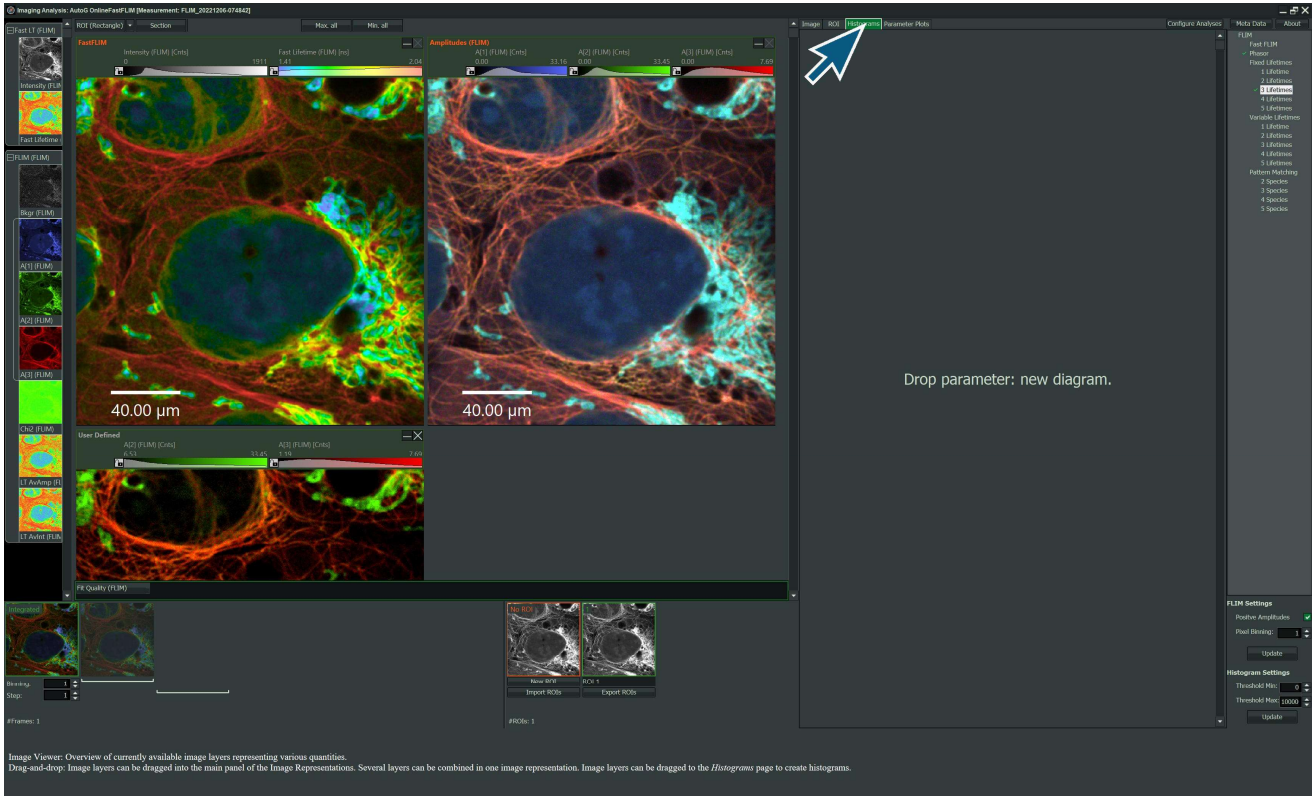
1. The ‘Phasor’ - plots are available by clicking on the tab.
2. On top there is the multi-exponential fit.



PicoQuant

8

Switch to tab ‘Histograms’. Here you can produce histograms based on the available image layers and their corresponding parameters.



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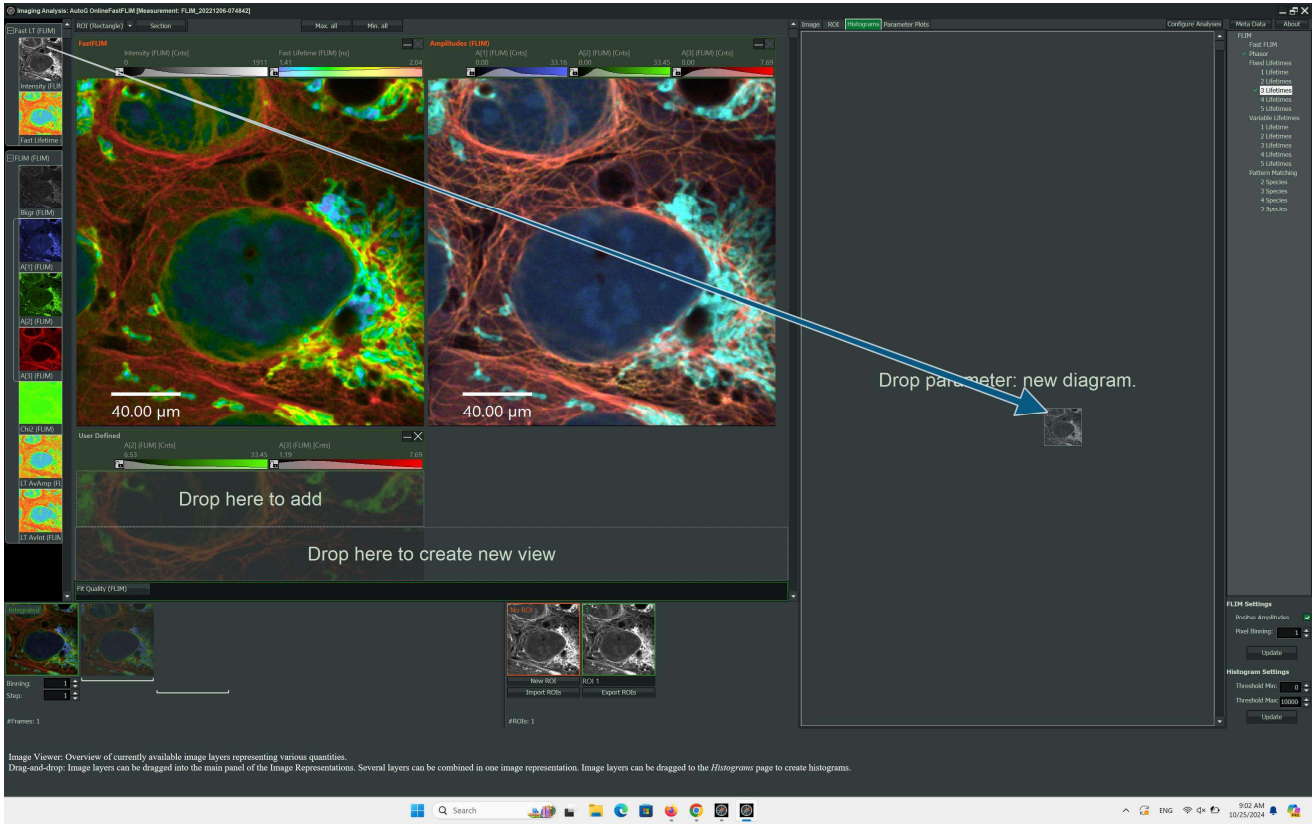
Drag for example the Intensity layer and check how an 1-D histogram is created.



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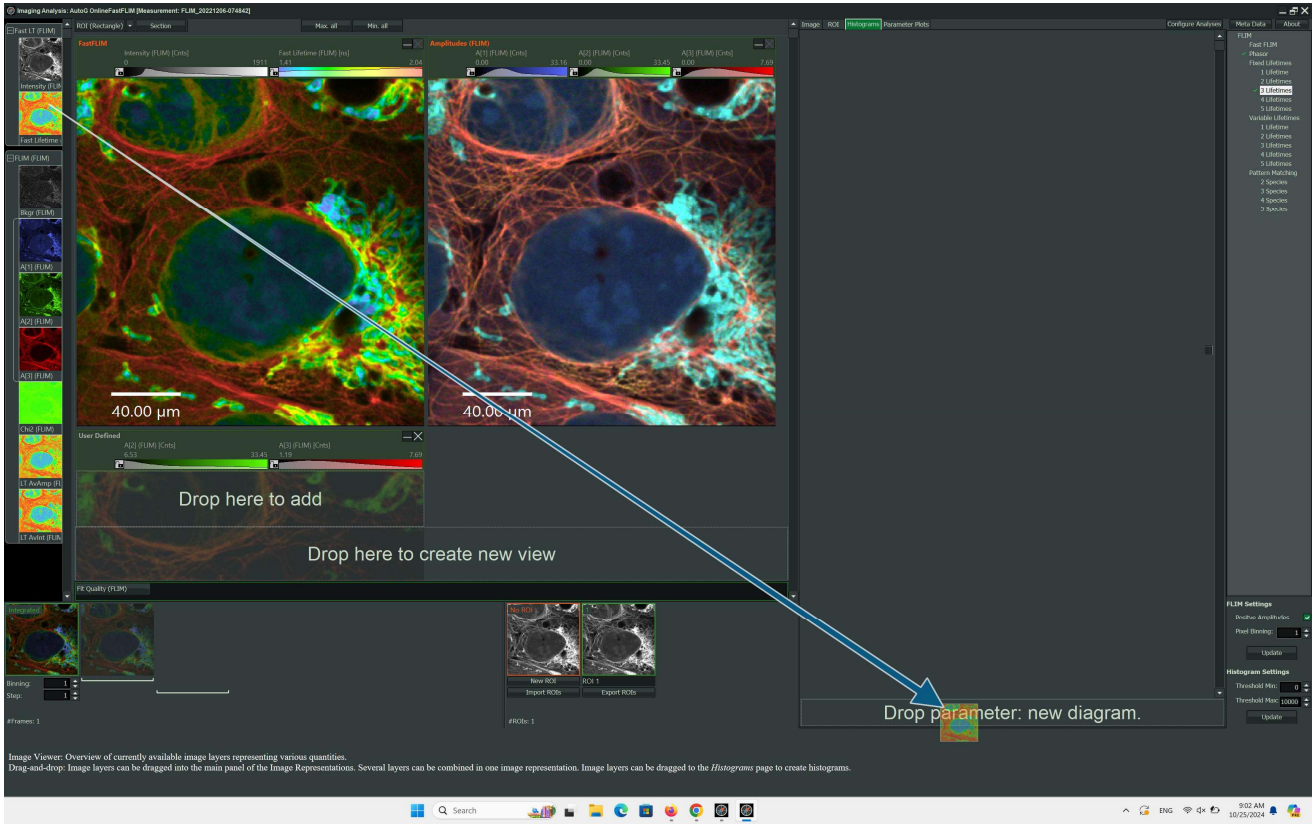
Create new histograms by drag-and-drop function.



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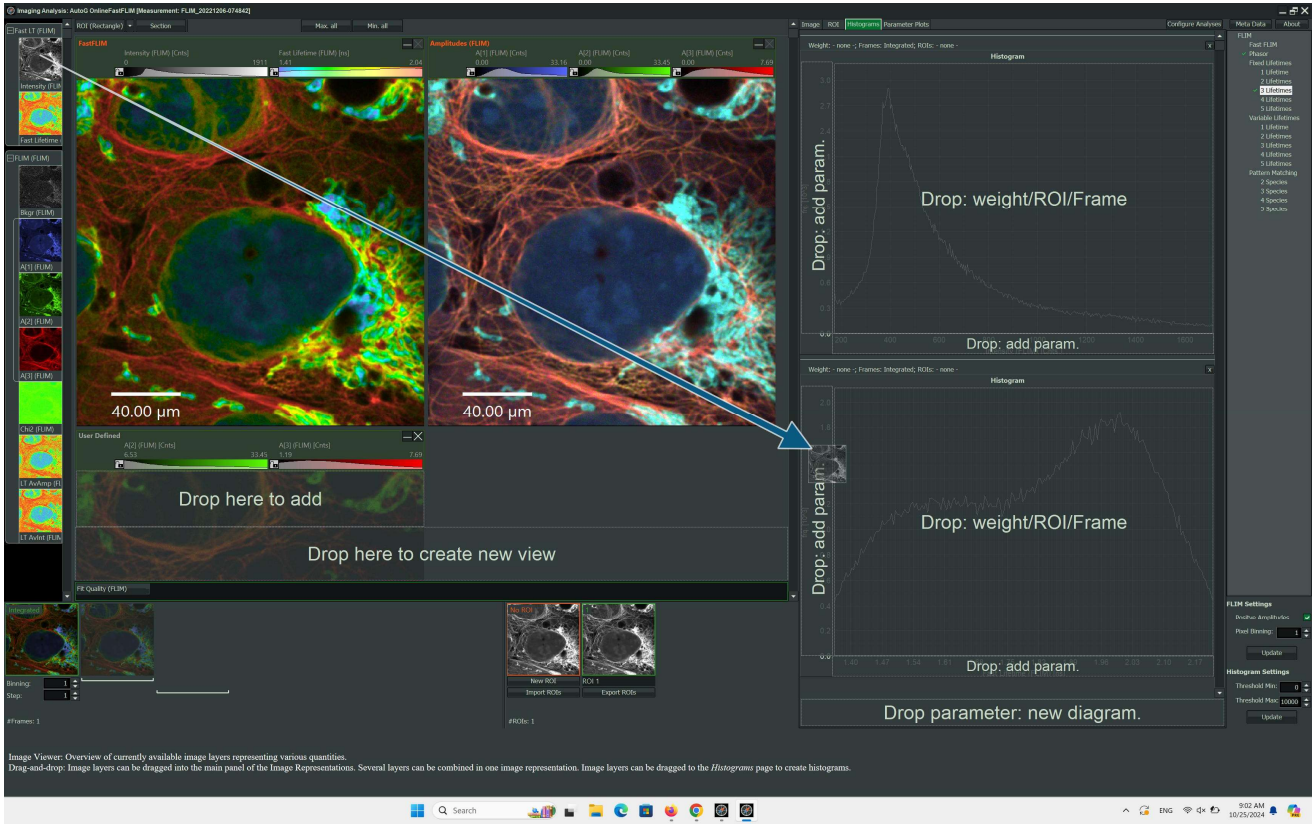
You can create 2D Histogram by drag-and- drop a layer in the y axis of an pre-exisiting 1D histogram.



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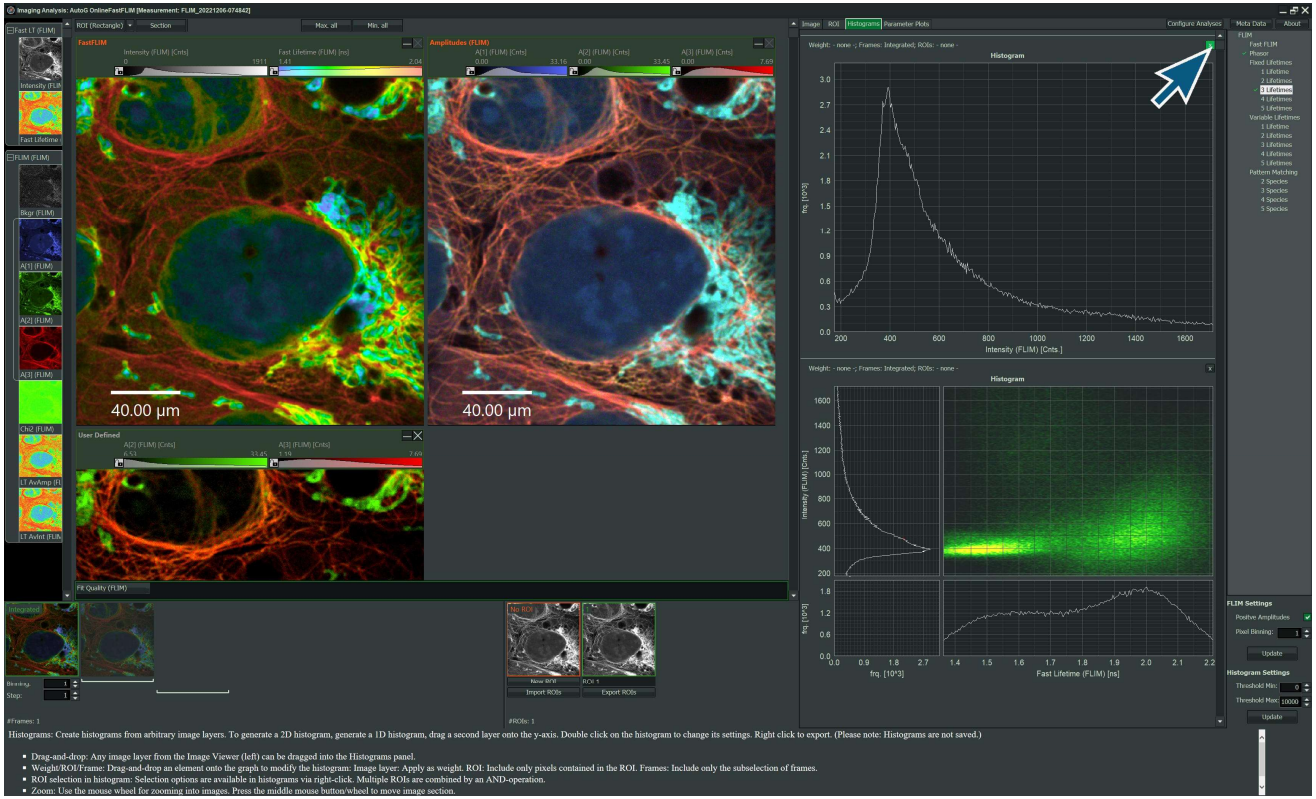
Help-text for the histograms appear in the lower part of the GUI while the mouse is hoovering over the histogram.

Click the ‘x’ button if you want to delete an histogram.



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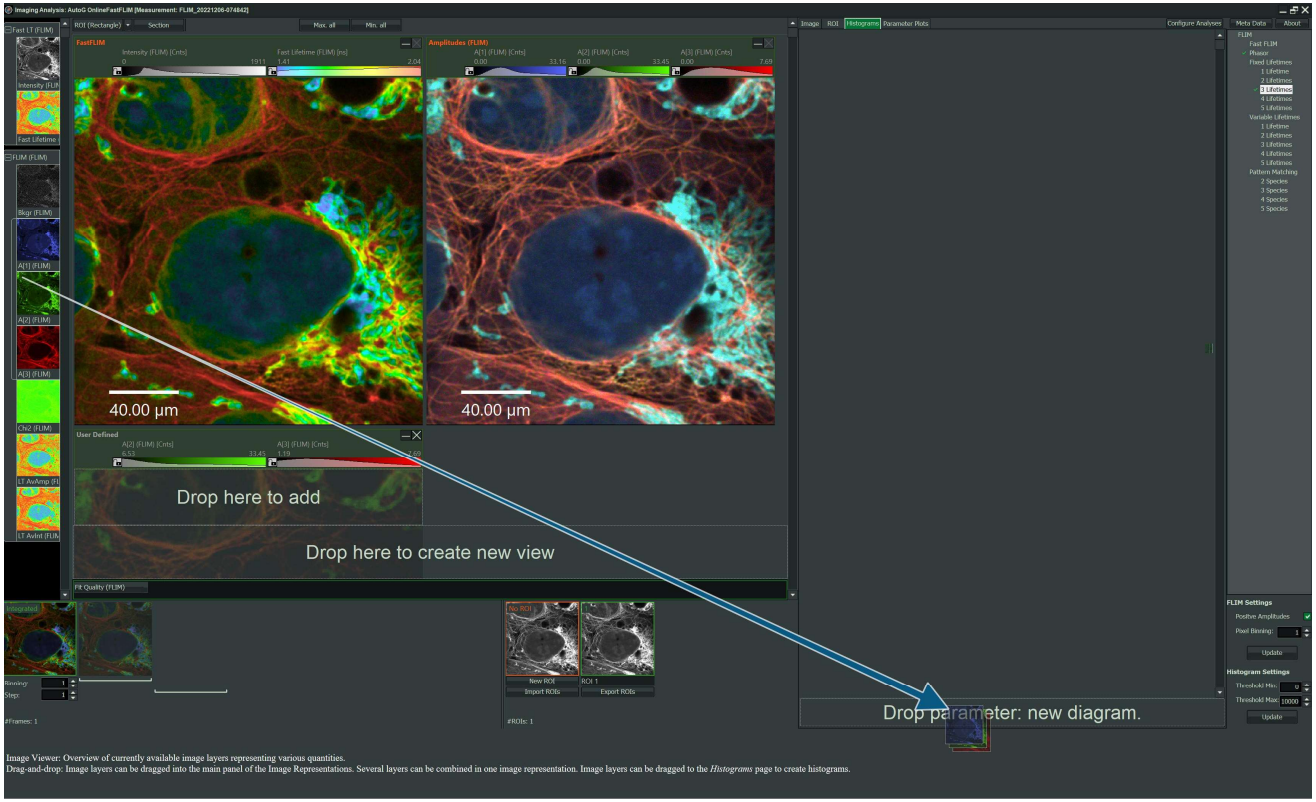
One can create multiple histograms by drag-and-drop a group of layers.



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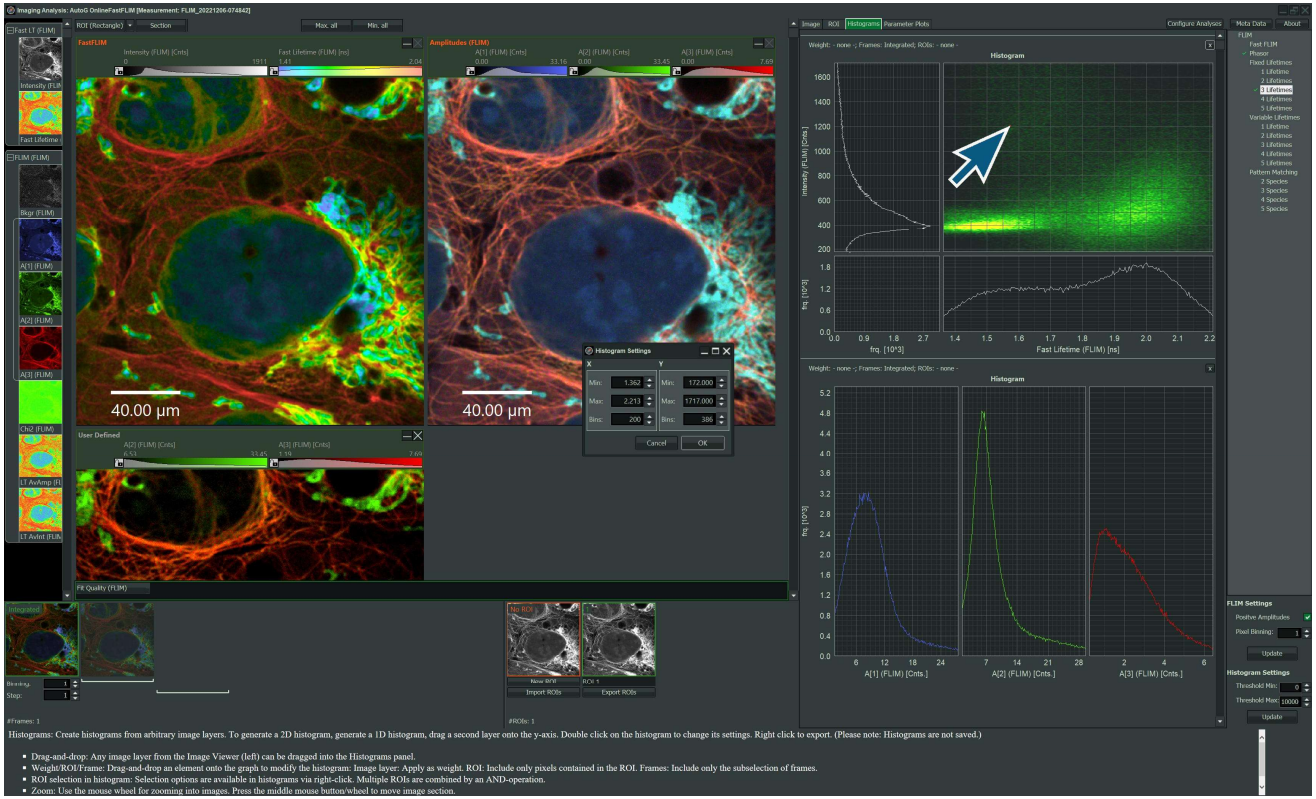
Double-click on the area of the 2D histogram or on the area of the 1D histograms. For the case of 2D histograms one can adjust the min and max of both parameters. For the 1D case one gets the min max of 1 parameter.



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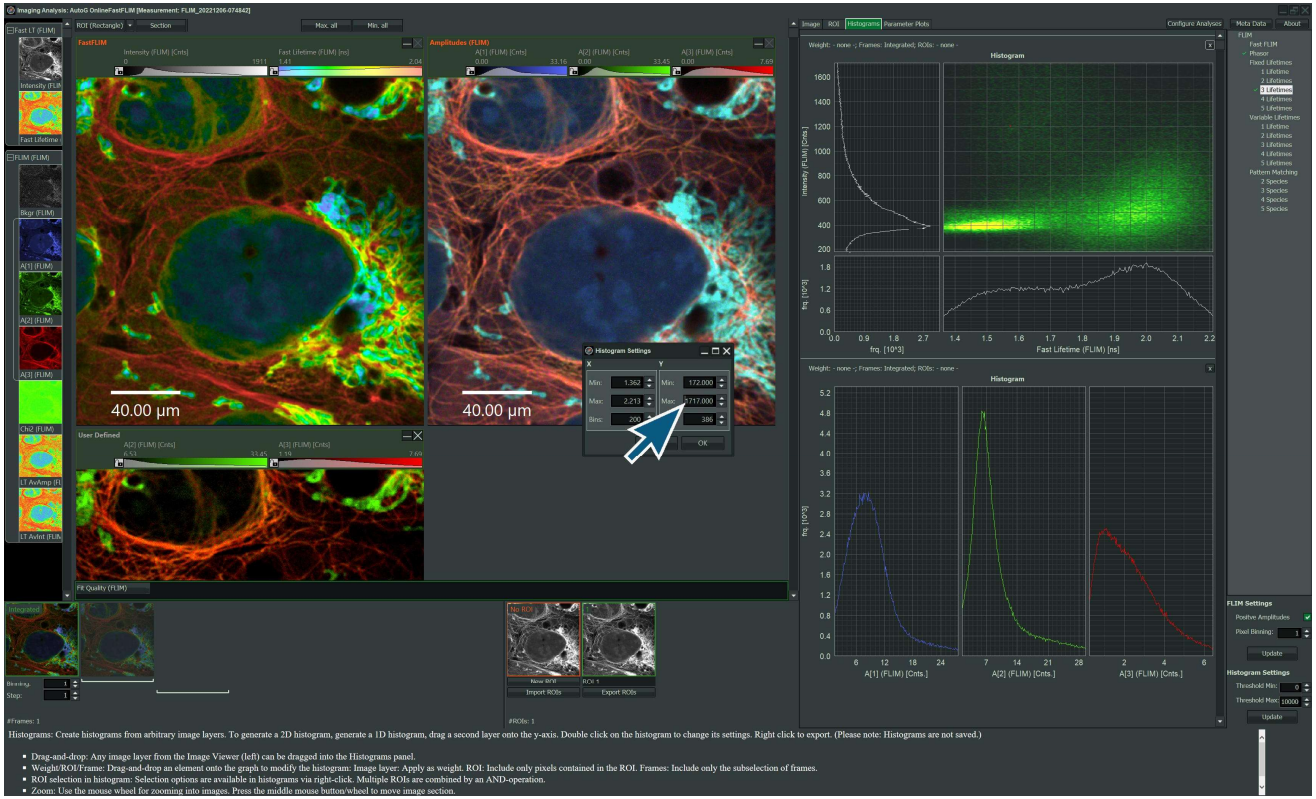
Adjust the limits and click OK.



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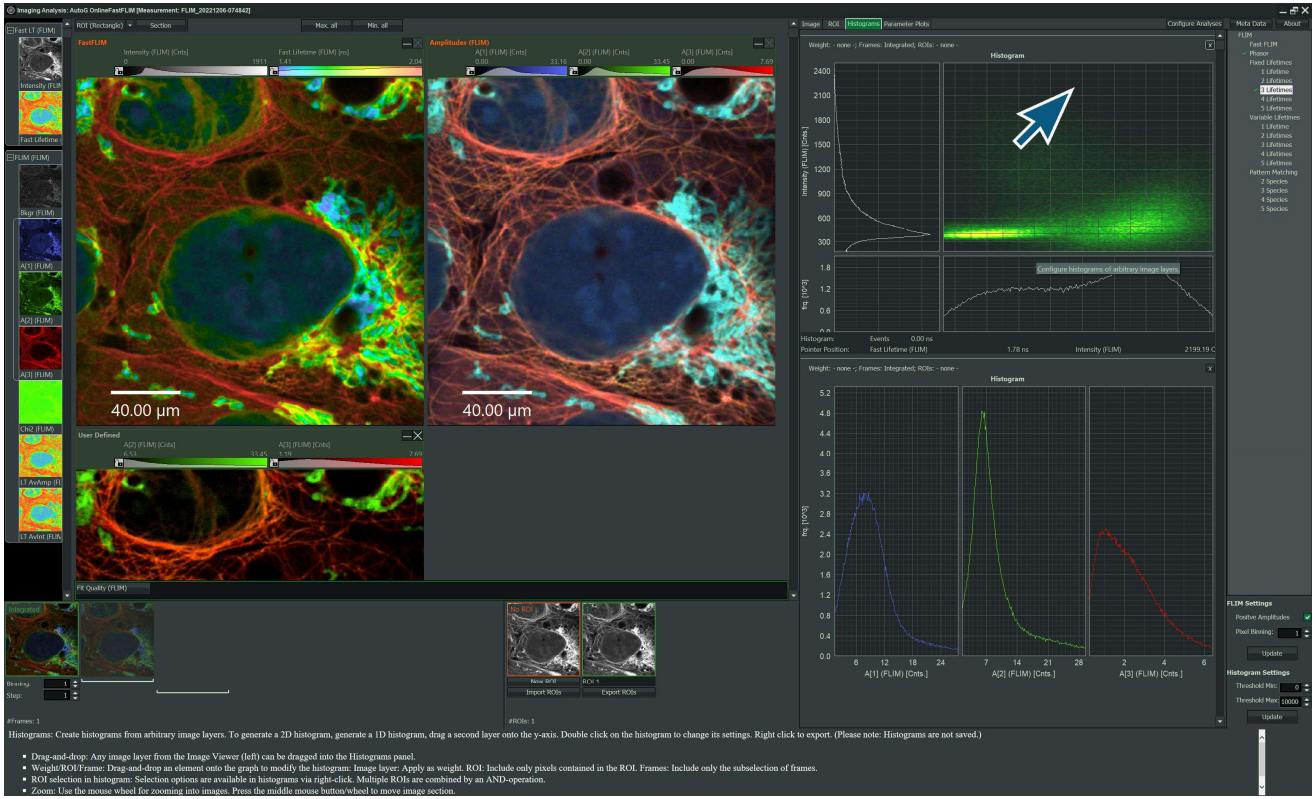
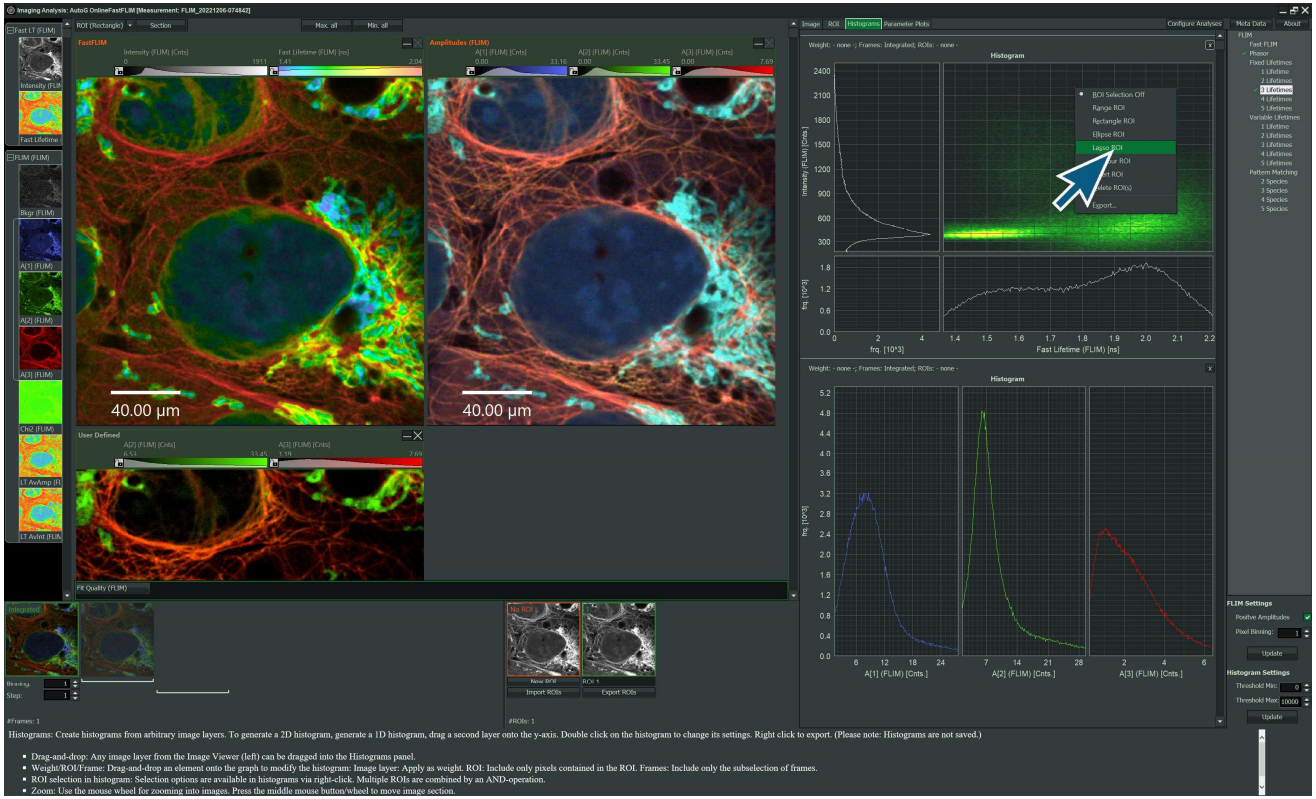
Right click on any point of the 2D histogram. Select ‘Range ROI’ from the menu.



17

Right click on any point of the 2D histogram. Select ‘Range ROI’ from the menu.



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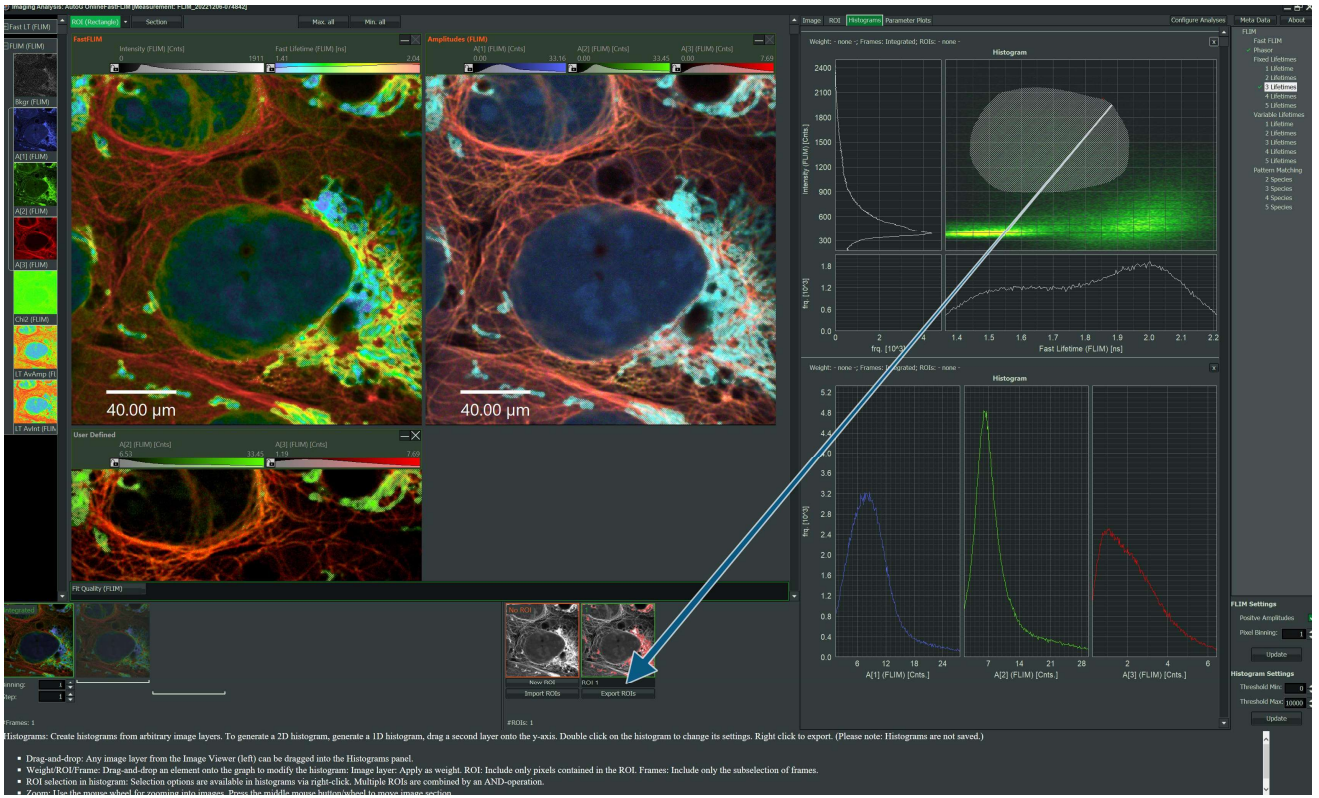
Select an area in the 2D histogram and see the changes in the active ROI. Pixels belonging to this selection of the 2D histogram get selected for the currently active ROI and are highlighted in red.



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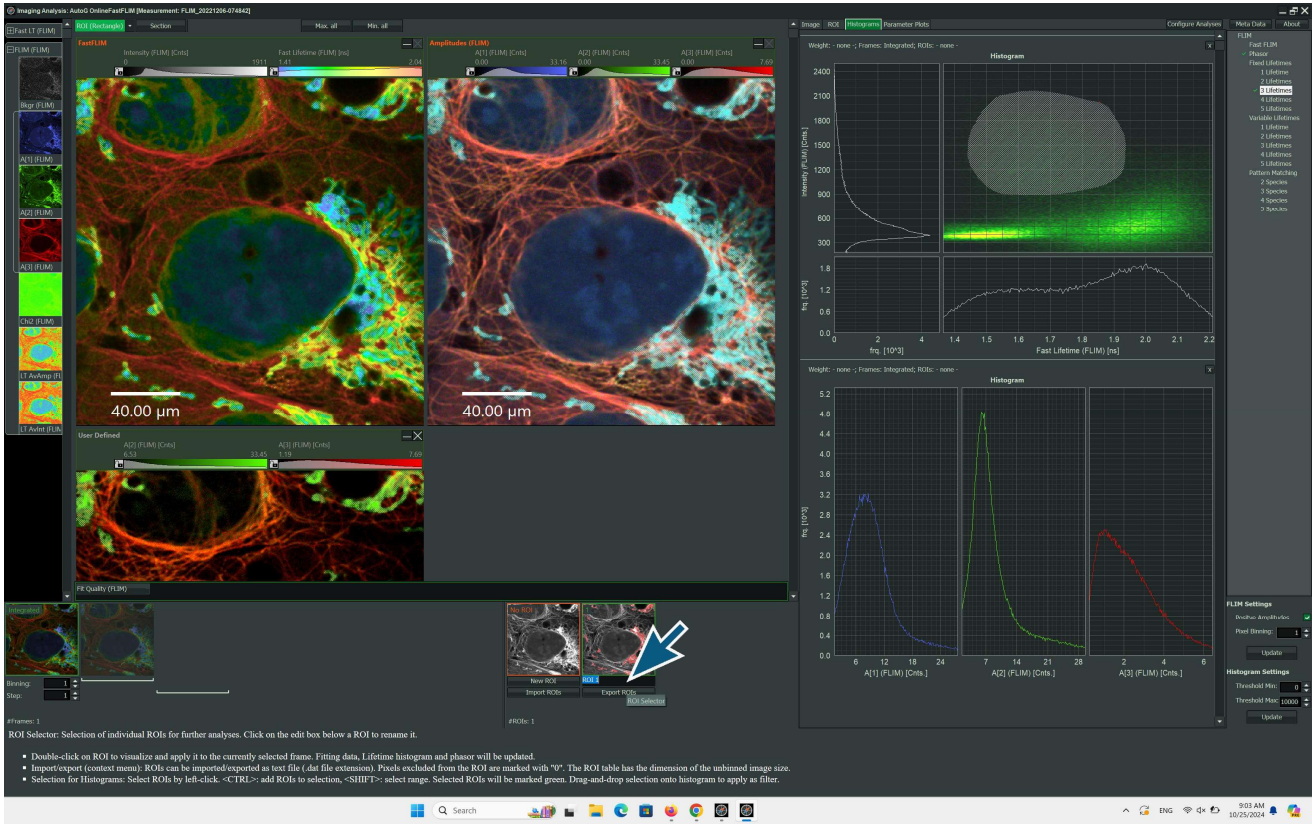
Help-text appears in the lower part of the GUI as the mouse is hoovering over the ROI-selector area.

You can type a name in the ROI.



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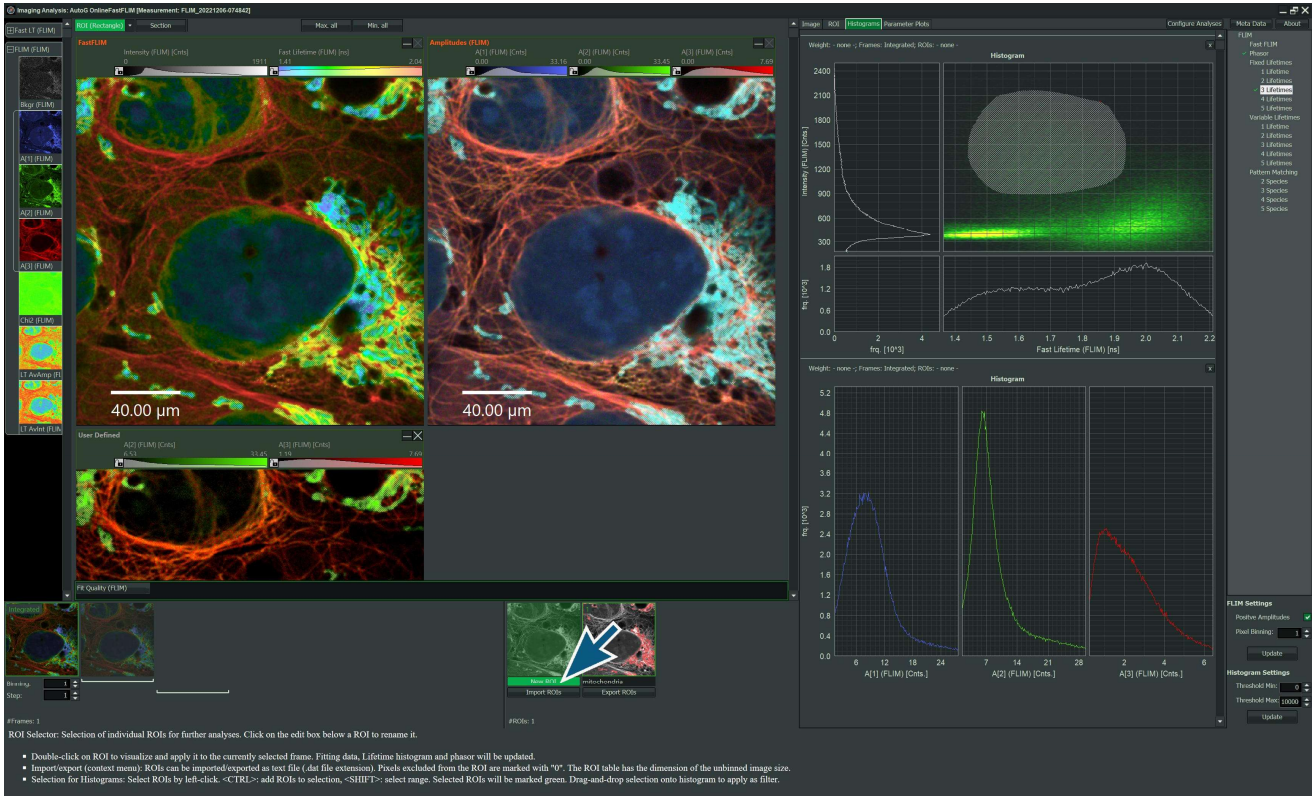
Click the ‘New ROI’ button. The current ROI is saved while a new active ROI is created.



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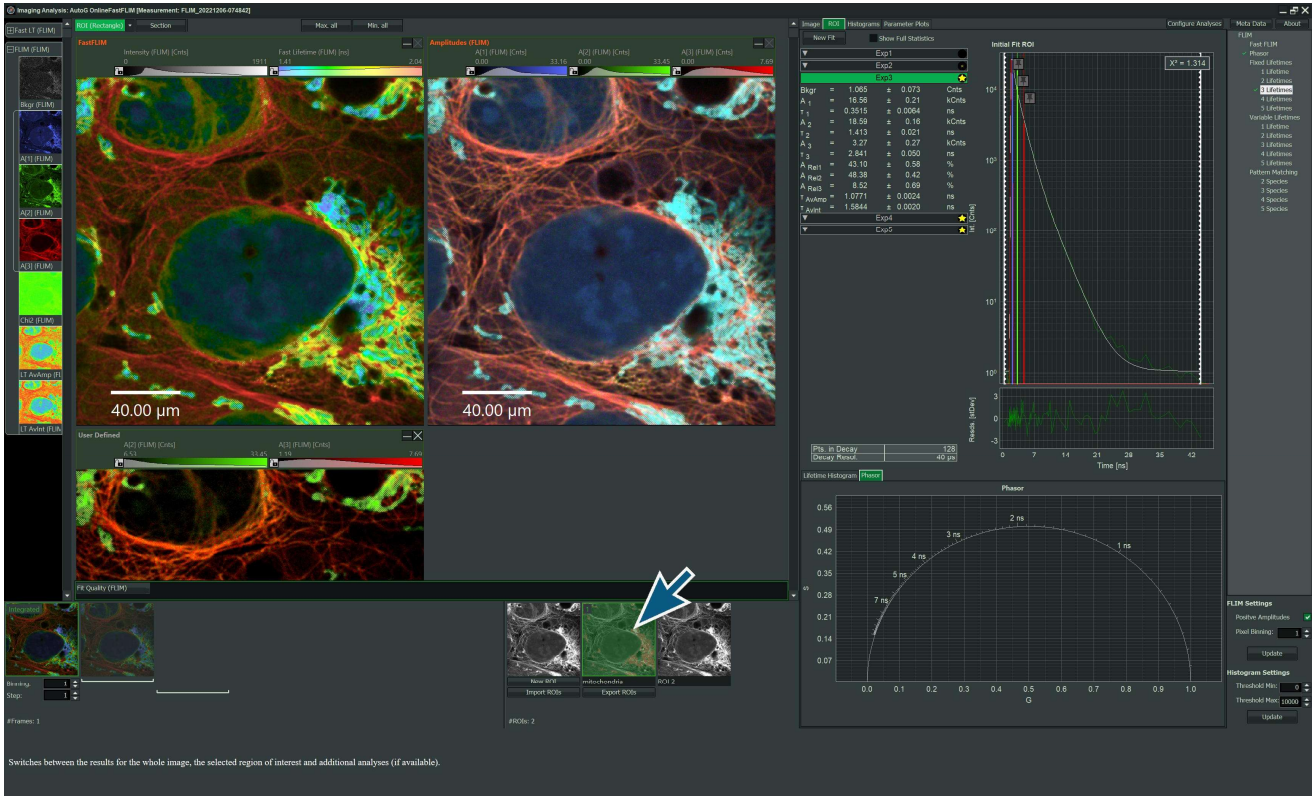
Double-click on the saved ROI and you will get the decay, fit and phasor plots corresponding to the ROI.



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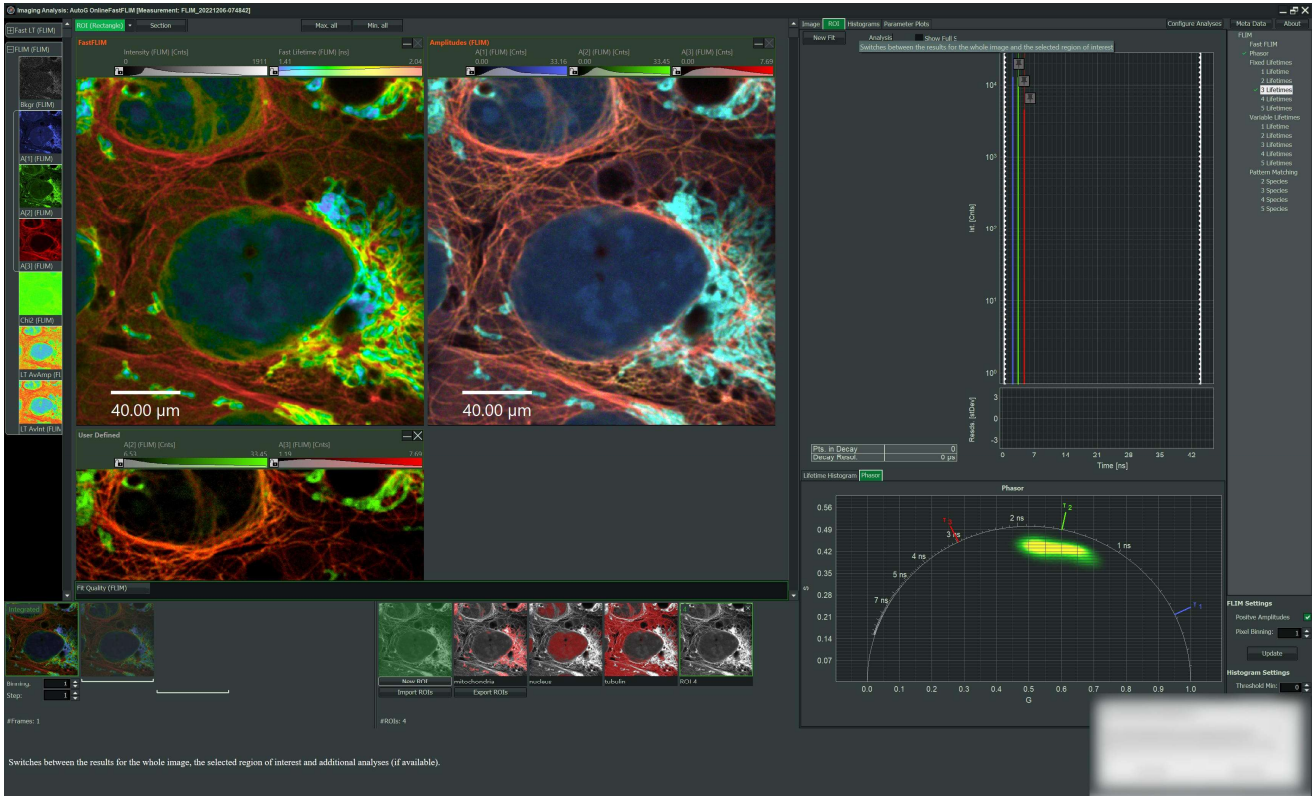
This process can be repeated more times.



By doubleclicking in any ROI , one can quickly inspect the corresponding phasor plot.