Lambda Mode on LSM710

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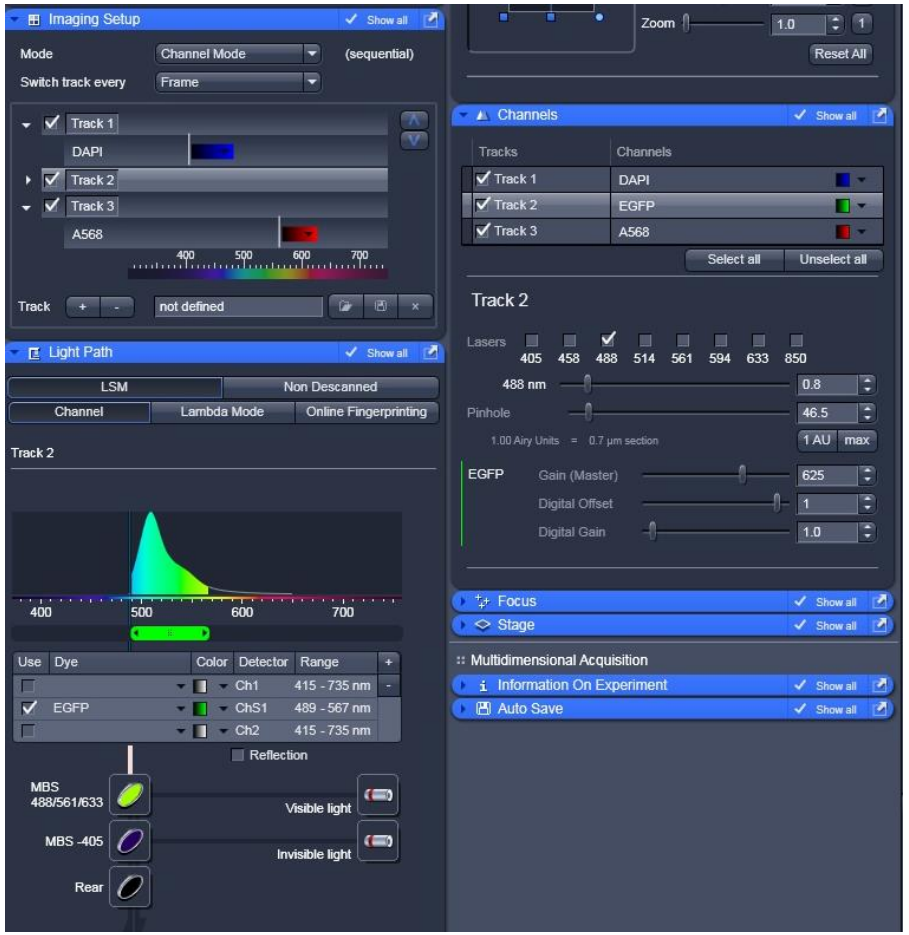
Lambda Mode is used when doing FRET. It is good for FRET pairs to determine optimal collection ranges.

Use one 1 light path in Lambda mode.

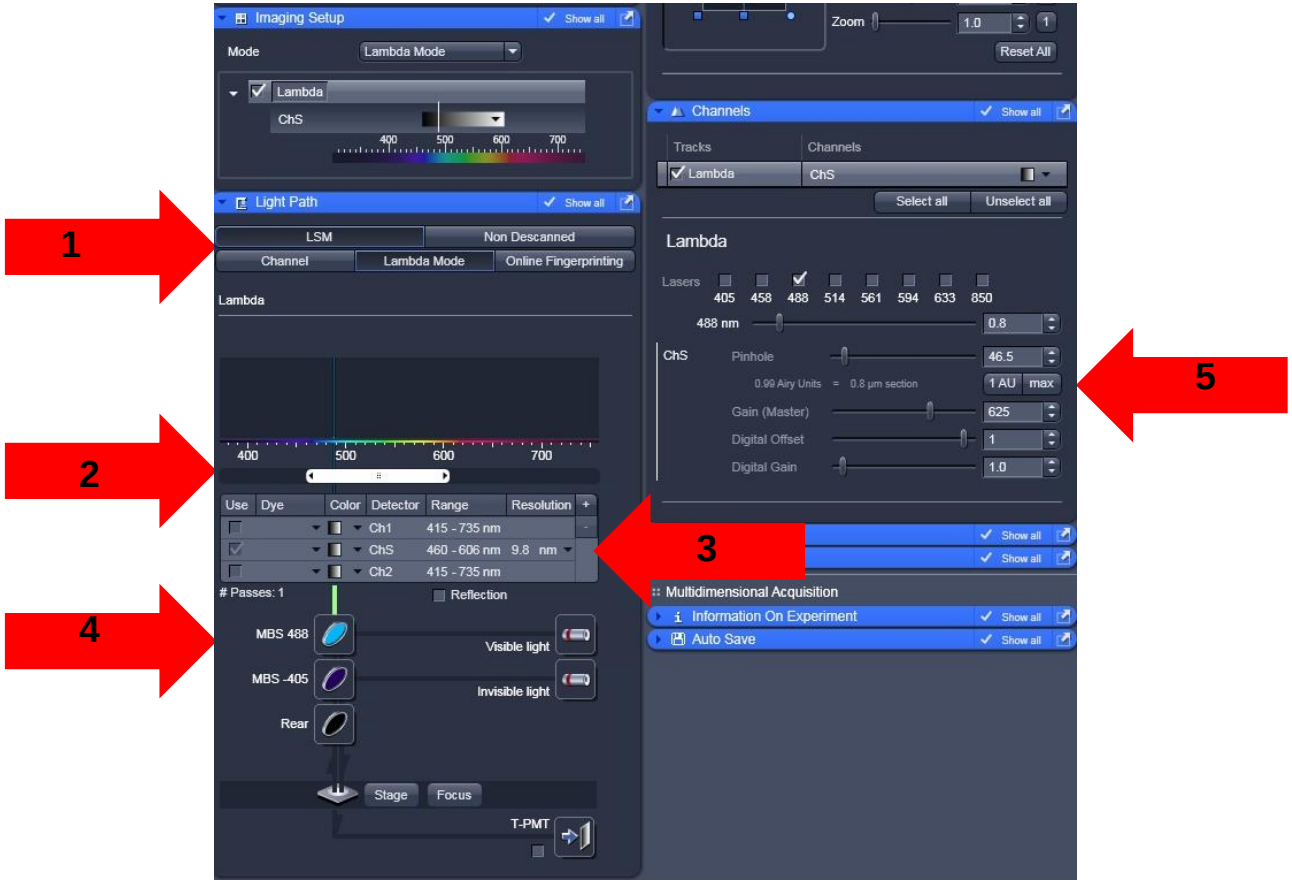
Make note of the laser power, pinhole, gain and digital used in LSM channel mode so you can copy them over to Lambda mode

LSM Channel Mode

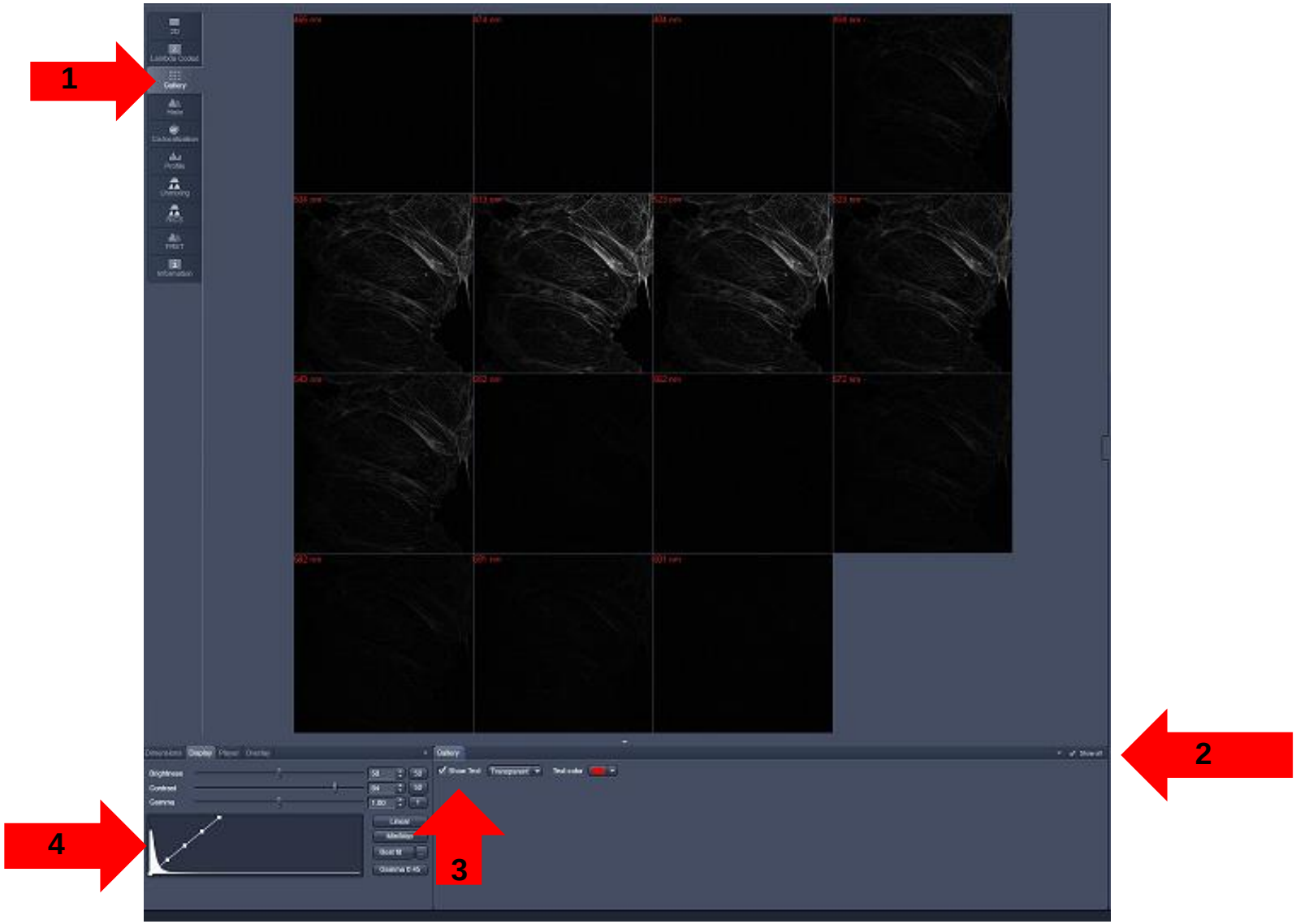


Make note of all settings

1. Select Lambda Mode.
2. Set range of emission filter. Select on both sides of the laser line in order to get an idea where brightest fluorescence is as well as range of fluorescence.
3. Select Resolution. 9.8nm means it will image every 9.8 nm through the range set up in Step 2.
4. Set the MBS filter to the laser line you are using. In this case 488. Multiple lines in the MBS filter will allow for light at those wave lengths to seep through and affect the brightness of the images at those wavelengths.
5. Match LSM mode settings in laser line, laser power, pinhole, gain, digital offset and digital gain.
6. Image.



1. Click Gallery to see each image
2. Make sure the Show All box is checked
3. Check the Show Text box so you will see the emission for each image
4. You may need to adjust the contrast to see the image.



In the Dimensions tab [1] you will see all the Channels listed [2]. You can uncheck the ones you are not interested in seeing.

Once again remember to have the Show all box checked [3] if you don't see the Channels.