Chaowei Shang
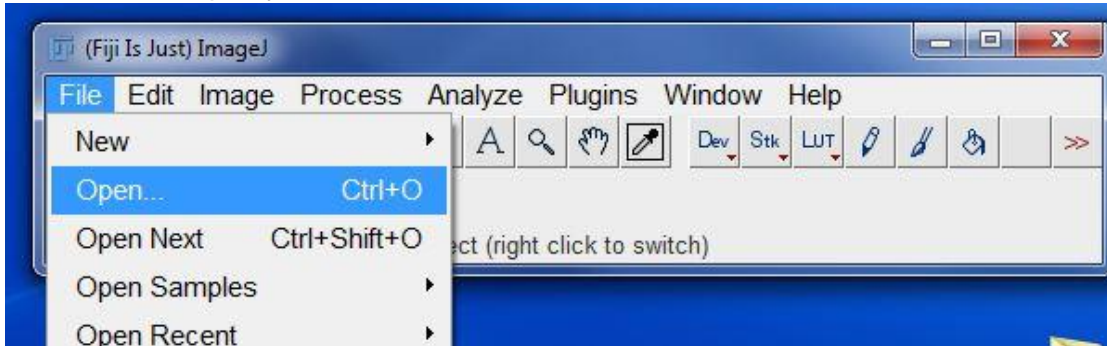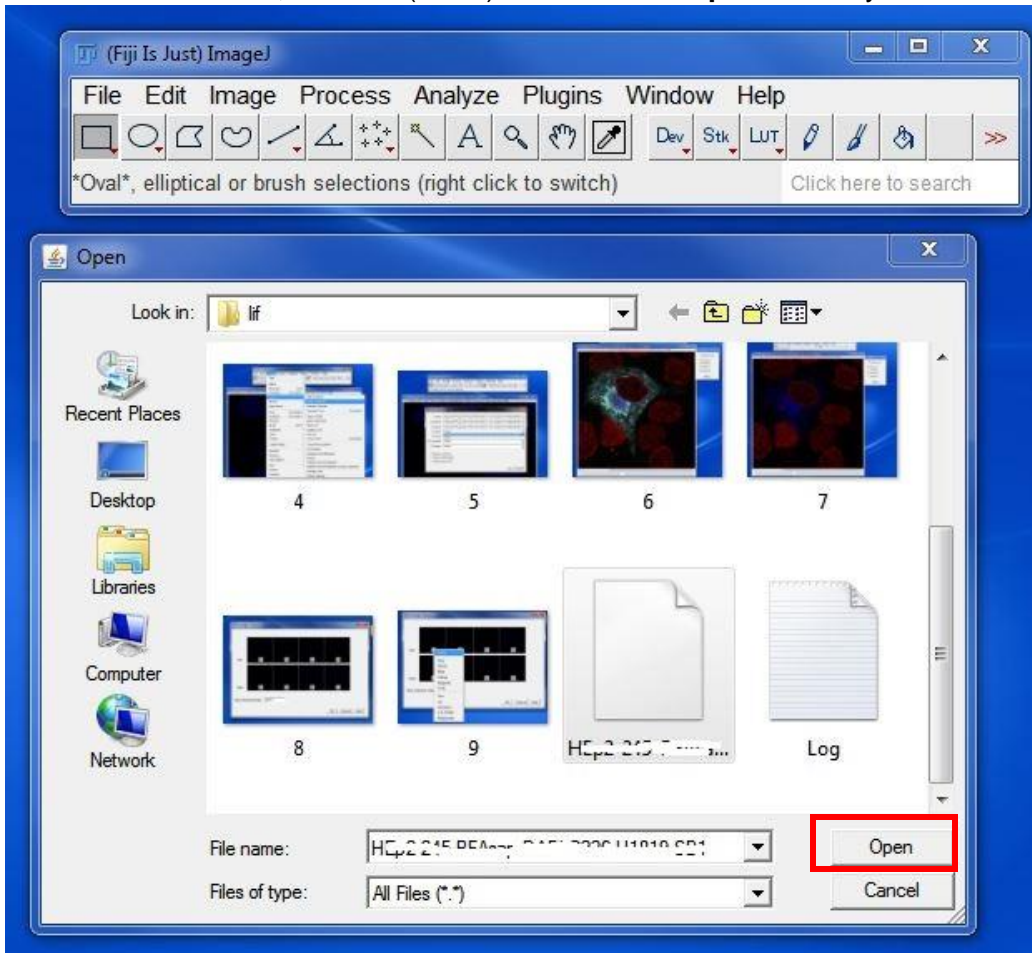Research Core Facility, LSUHSC-Shreveport, LA
8/29/2018

Convert images to TIFF format in Image J / FIJI
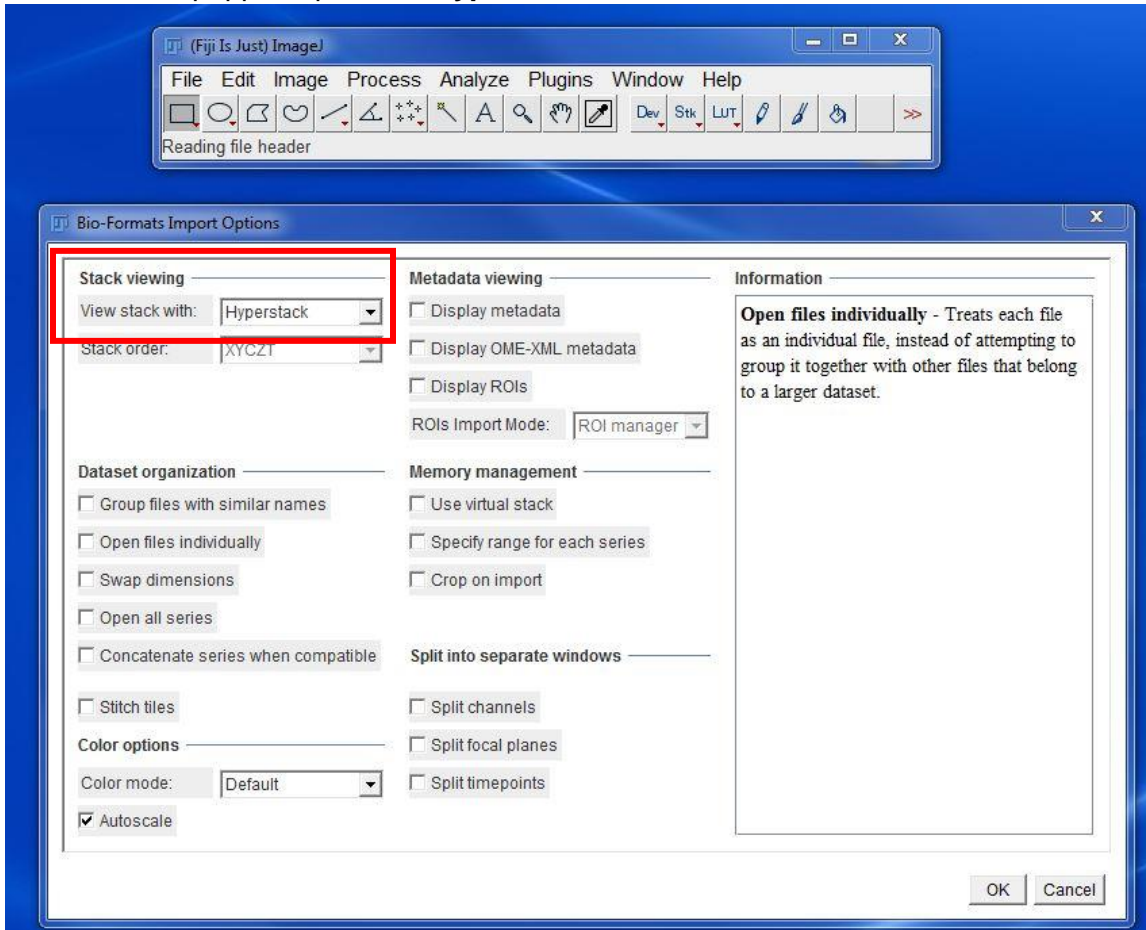
Thank you for the image provided by Dr. Martin Muggeridge.
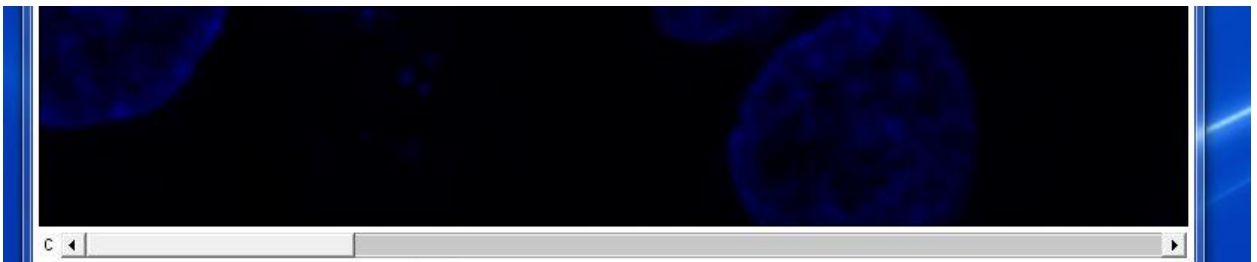
1. Load FIJI and open your file.

2. In this demonstration, a **.lif** file (Leica) is used. Click **Open** to load your file.
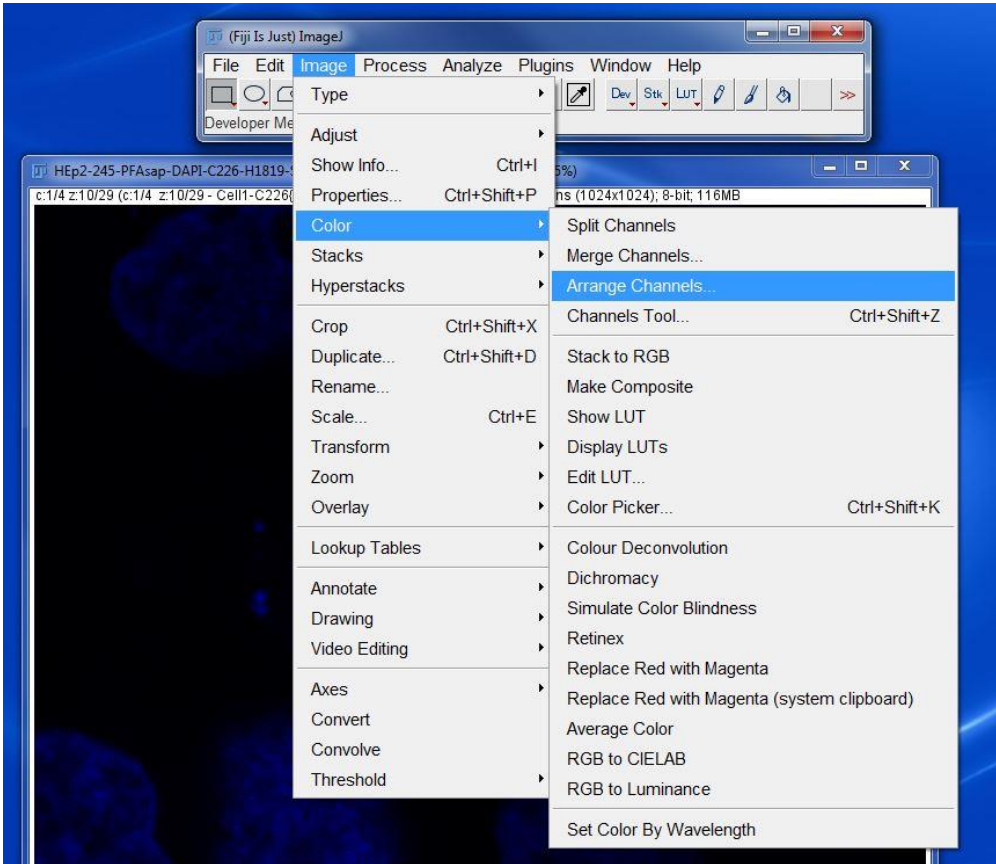
3. In the window popped up, select **Hyperstack.** Then click **OK.**

4. At the bottom of the opened image, **C** stands for channels. You can drag the bars to look at different channels.

5. Go to **Image→Color→Arrange Channels** to arrange the order of channels and select the color for each channel. All the channels are in a same color now.


5.1. To assign new colors to each channel, right click on the images in the New row and select colors. Then click **OK**. Now when you drag the **C** bar at the bottom of the opened image, you will see the newly assigned colors.
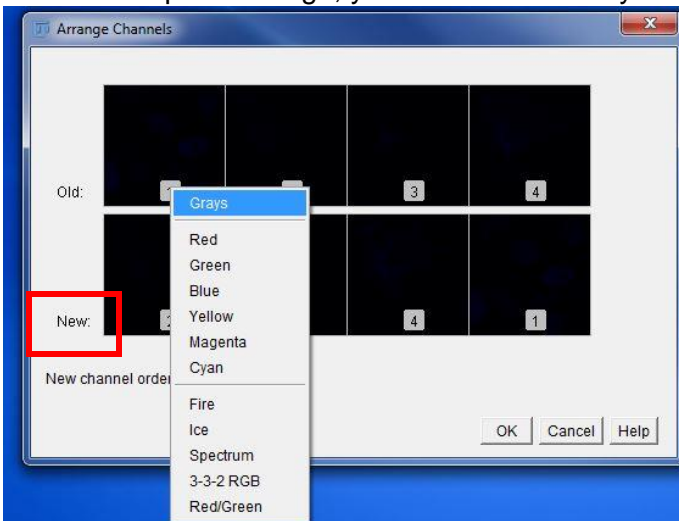
6. To convert each channel into a TIFF file, go to **Image→Color→Split Channels**. Select each split channel and save them independently through **File→Save**. The default format for the saved images is TIFF.

7. To convert a merged image into a TIFF file, go to **Image→Color→Merge Channels**. Select the merged image, then go to **Image→Color→Stack to RGB.** Then save the RGB image (**File→Save**), the default format is TIFF.
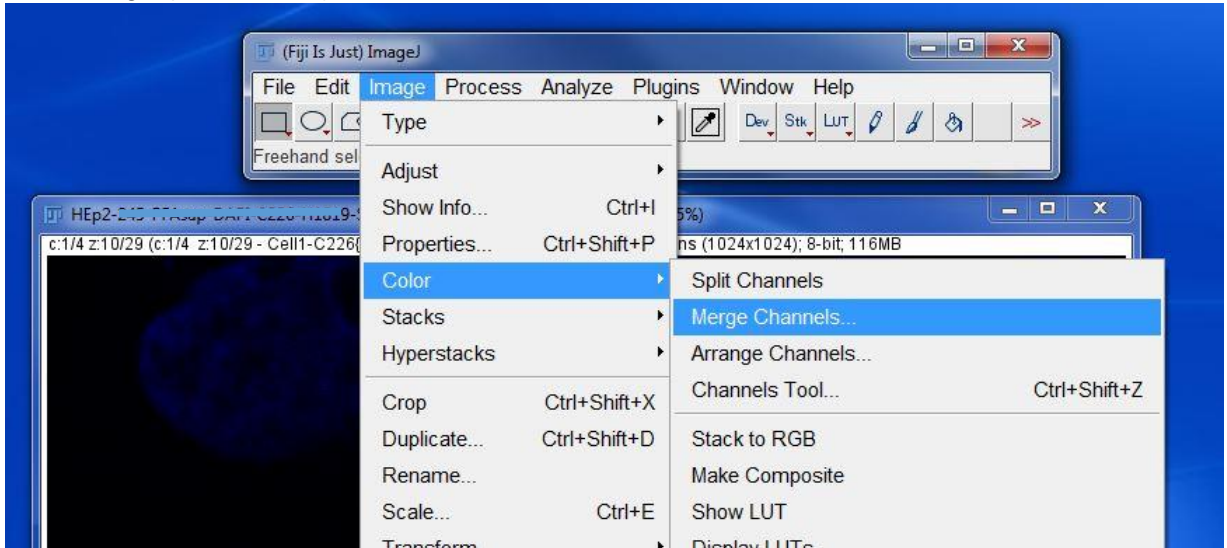
7.1. In the **Merge Channels** window, make sure **Create Composite** is selected. Select the corresponding split file for each channel (C), then click **OK**. However, the order of channels will not affect the outcome of the merged image.
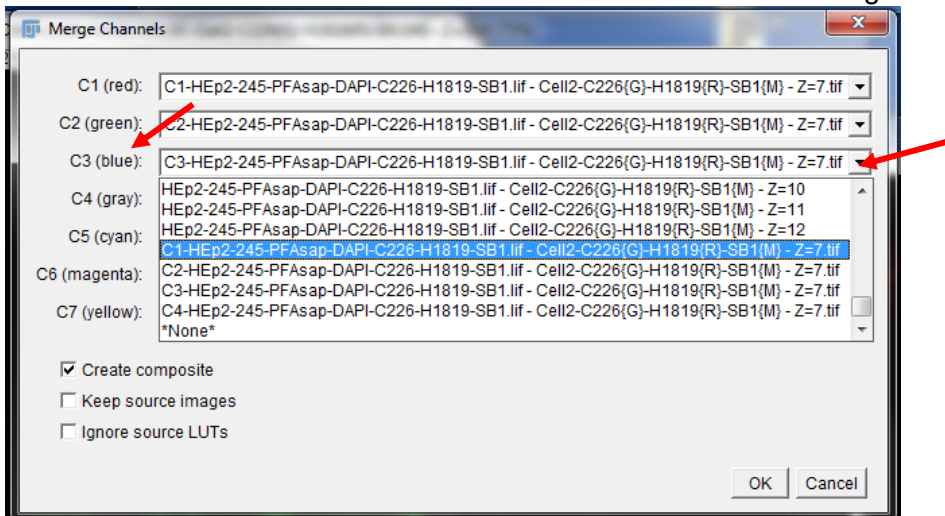
8. Go to **File→Save** to save the new **Composite RGB** image, the default format is TIFF.