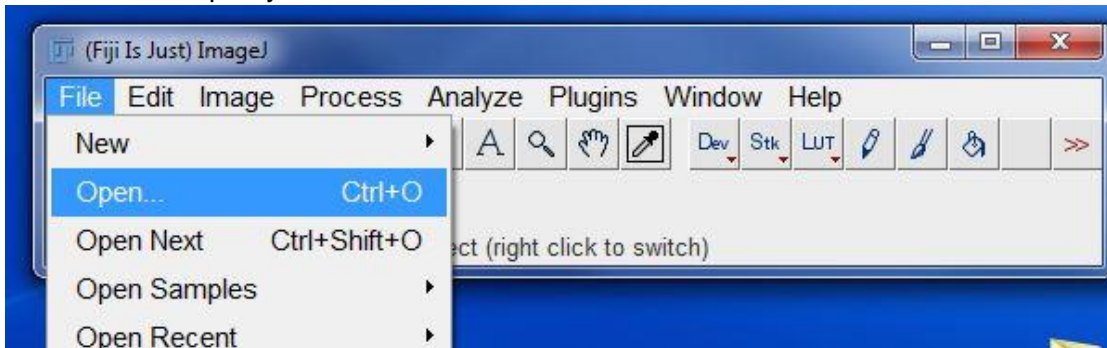


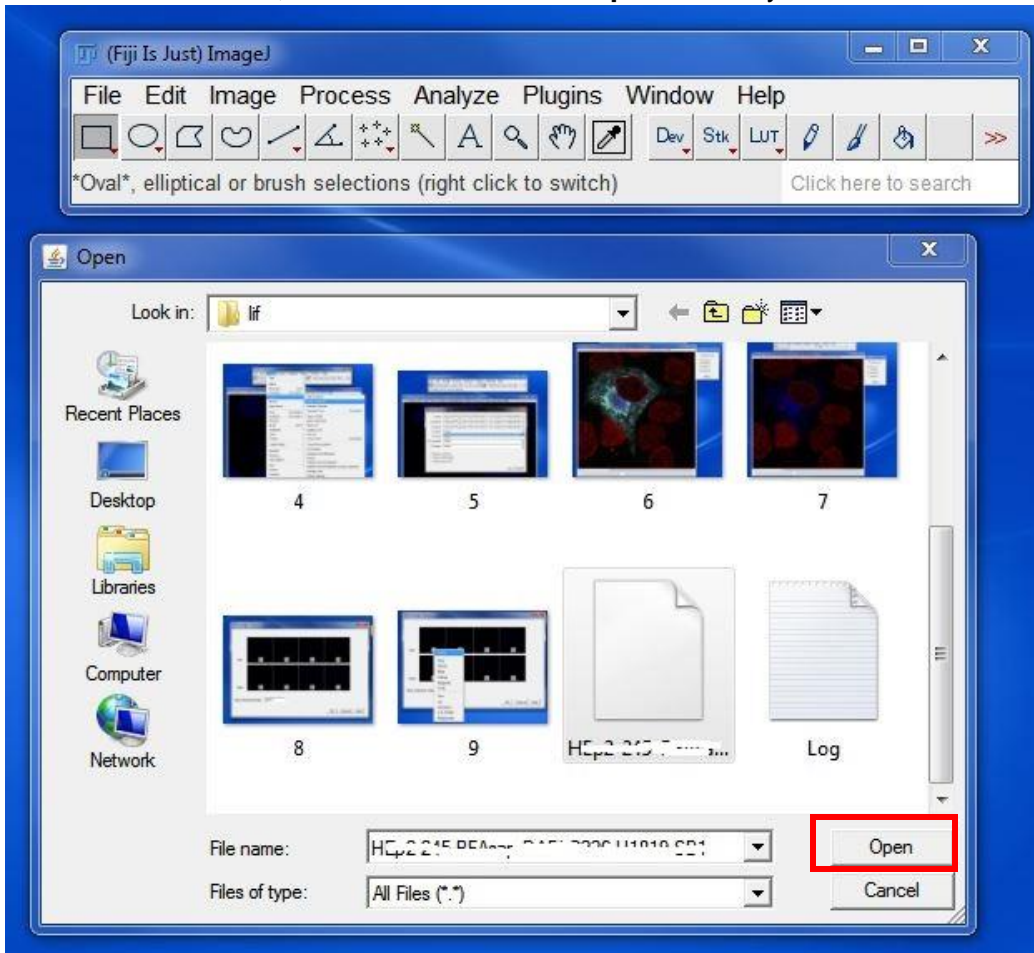
## How to view a multichannel Z stack image in Image J / FIJI

Thank you for the image provided by Dr. Martin Muggeridge.

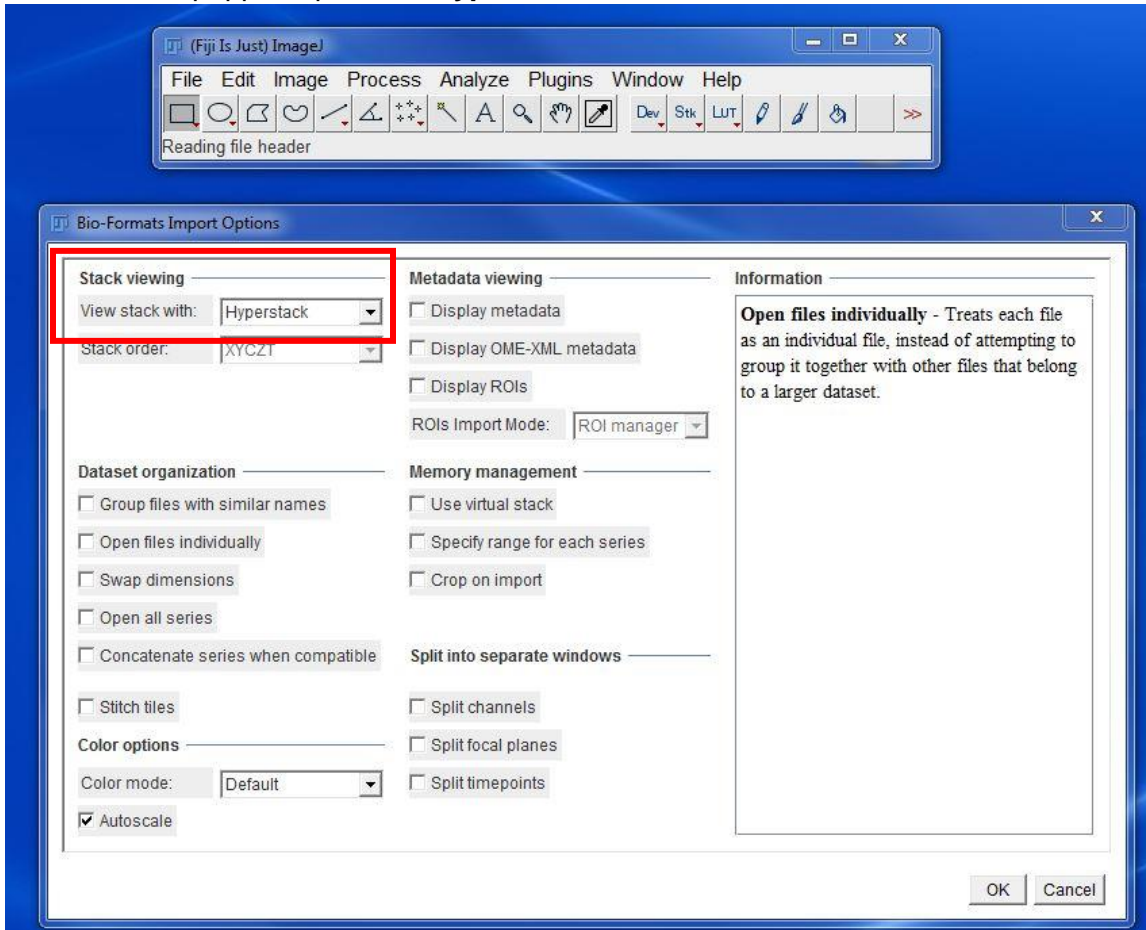
1. Load FIJI and open your file.



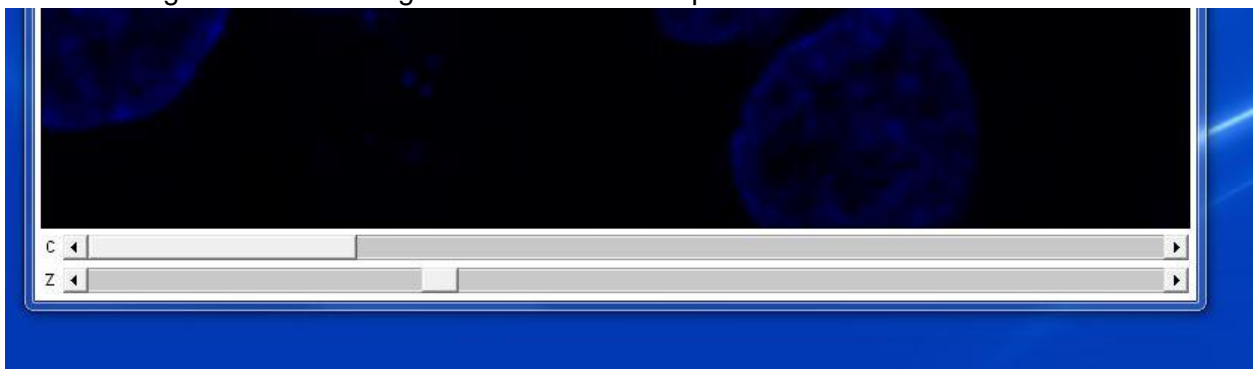
2. In this demonstration, a .lif file is used. Click **Open** to load your file.



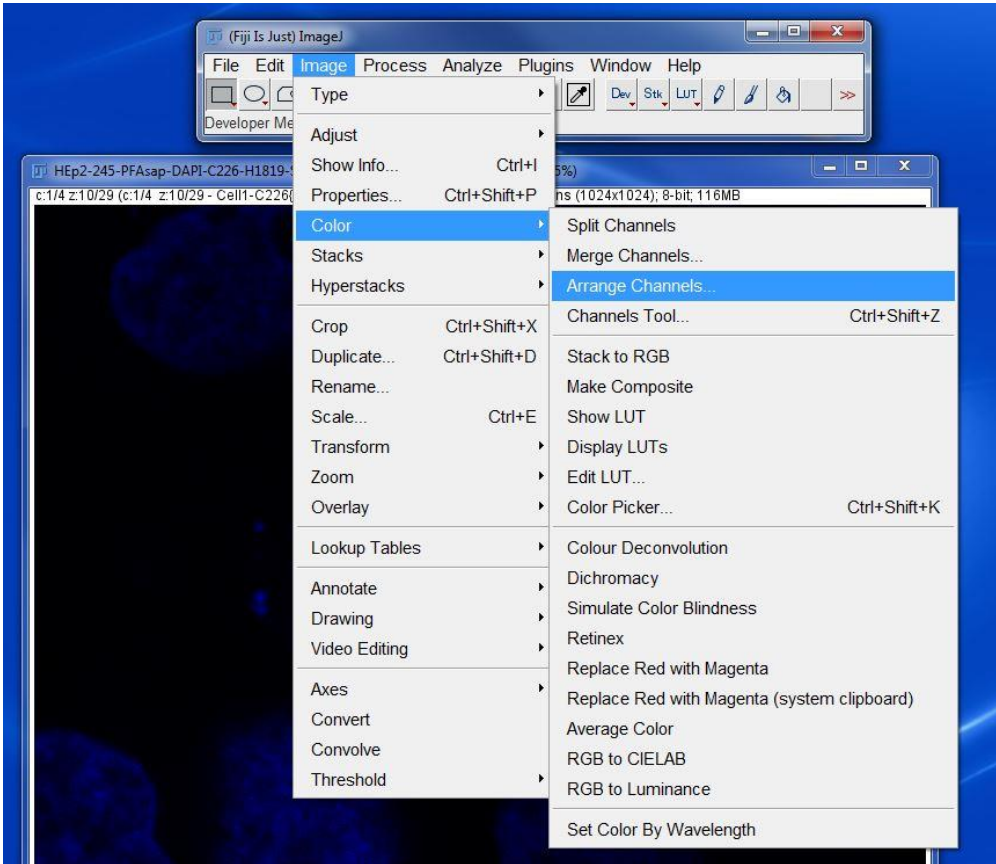
3. In the window popped up, select **Hyperstack**. Then click **OK**.



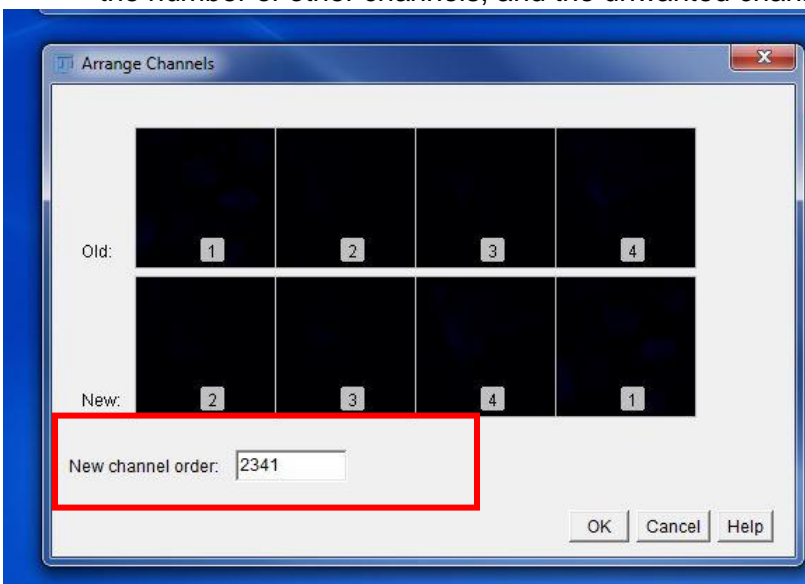
4. At the bottom of the opened image, **C** stands for channels, and **Z** stands for Z stacks. You can drag the bars to change channels and focal planes.



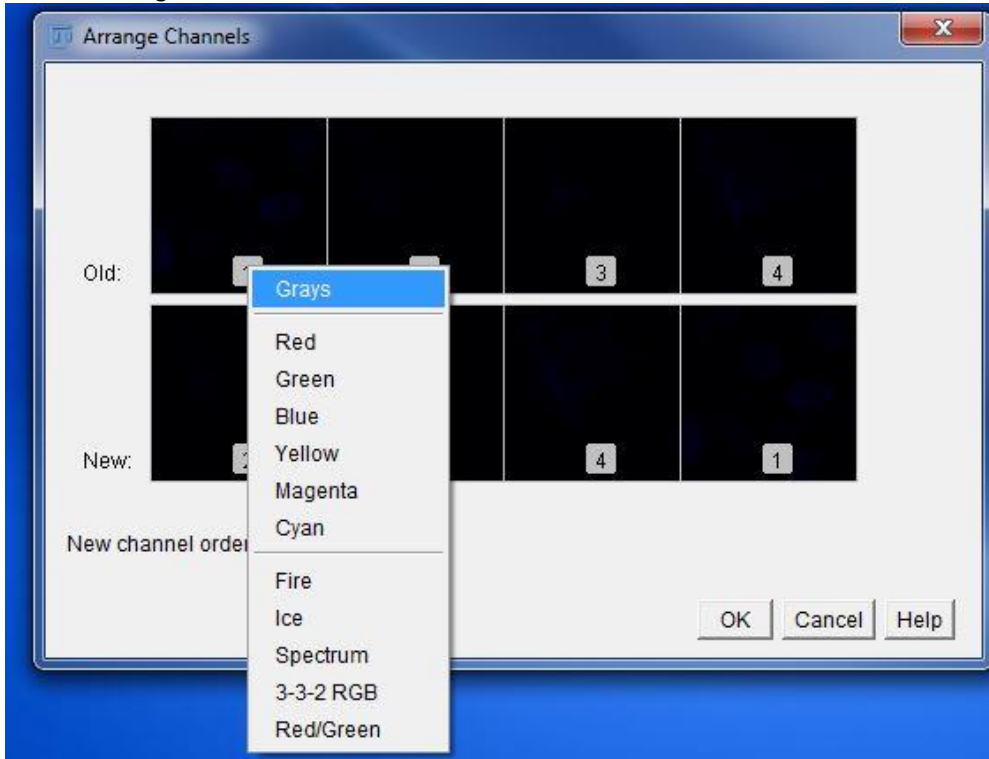
5. Go to **Image**→**Color**→**Arrange Channels** to arrange the order of channels and select the color for each channel.



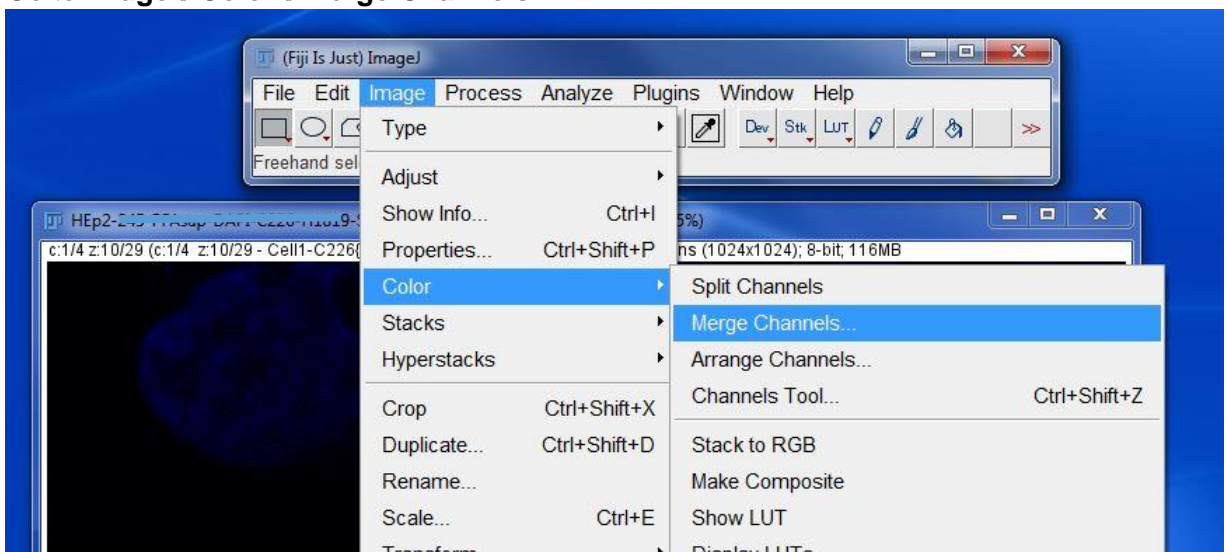
- 5.1. Type in the order of channels. If you want to unselect one channel, just type in the number of other channels, and the unwanted channel will not display.



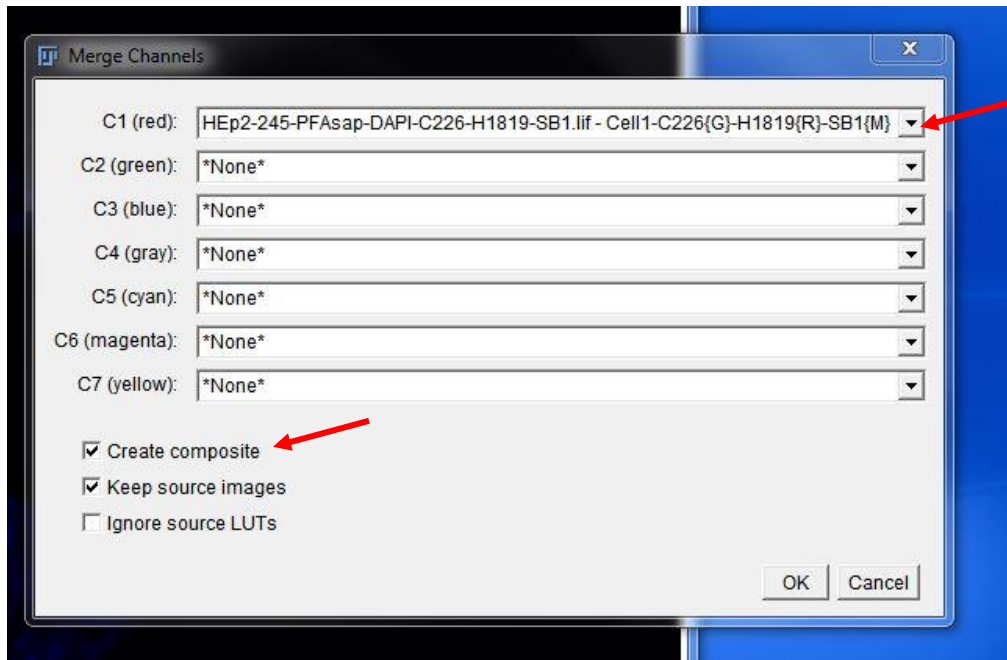
- 5.2. Right click on the numbers to select colors. Then click **OK**. Now when you drag the **C** or **Z** bar at the bottom of the opened image, you will see the newly assigned colors and orders of channels.



6. Go to **Image**→**Color**→**Merge Channels**.



- 6.1. In the **Merge Channels** window, make sure **Create Composite** is selected. Select the name of your file in the dropdown menu of C1, then click **OK**. The number of channels (C) and the colors indicated in this window do not affect the final merged image. **The channels selected and the colors of channels are defined in step 5.**



7. In the new **Channels** window, you can select the channels you are interested in, and merge them in different combinations, while dragging the Z bar to browse through your image.

