

## Cell Count Script for ImageJ/FIJI

The script iterates through a folder of RGB images and splits them into red and green 8-bit images that can be processed using the 3D Object Counter FIJI plug in. The script will save the split channels and object maps for each image as well as save a text file with results from the plug in.

### Function Descriptions

#### choose\_folder

The choose\_folder function allows users to choose the folder where the images that will be processed are contained.

#### split\_channels

The split channels function will split the image into a single-color channel and perform the 3D Objects Counter plug in on that image. It also saves a tif and jpg of the single channel and object map images, respectively.

#### get\_log\_results

The get\_log\_results function locates the information printed to the Log window in ImageJ and saves it to a text file. User can open this file in Excel to extract results.

### Important Fields

To change the channel accessed for splitting:

Line 32: original\_color = ChannelSplitter.getChannel(imp, #)

Line 55: original\_color = ChannelSplitter.getChannel(imp, #)

Red = 1, Green = 2, Blue = 3

To change folder for saving split channels for red and blue channels:

Line 35: folder = "insert file path here"

Line 58: folder = "insert file path here"

To change the folder for saving object maps for red and blue channels:

Line 45: folder = "insert file path here"

Line 46: filepath = folder + "/" + "{}\_updatedpath.jpg".format(filename)

Line 68: folder = "insert file path here"

Line 69: filepath = folder + "/" + "{}\_updatedpath.jpg".format(filename)

To change the folder for saving the text file with results:

Line 108: get\_log\_results("insert file path here")