0color_images (ImageJ macro)

Analyse series of greyscale images from metafluor to construct a color image (with or without an fluorescent image)

INPUT:

Structure of the images:

• All images are from the same name prefixe "imagename" and an incremential extension number "extnumber" for each set of images (.001, .002, ...) :

- Red channel (1) image : "path/imagename1.extnumber"
- Green channel (2) image : "path/imagename2.extnumber"
- Blue channel (3) image : "path/imagename3.extnumber"
- Fluorescent channel (4) image : "path/imagename4.extnumber"
- Fluorescent channel (5) image : "path/imagename5.extnumber"
- Macro ask for the red image and to draw an ROI for the white balance
- Macro ask if there is an fluorescent image to analyse

Images to be analysed:

• The first 3 images (channels 1, 2, 3) are took with the transmitted light and with red, green, and blue filters to obtain a color image

• The last image is a fluorescence image (channel 4 or 5) (optional, analyse can run with only the 3 color images)

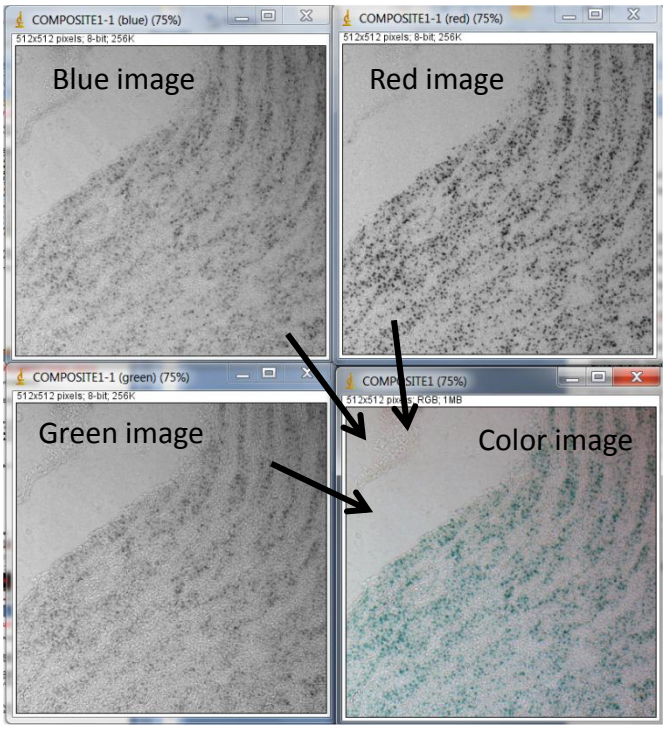
• The first serie is an image with a white background, used to calculate the white balance to be applied on all color images (channels 1,2,3 only)

OUTPUT:

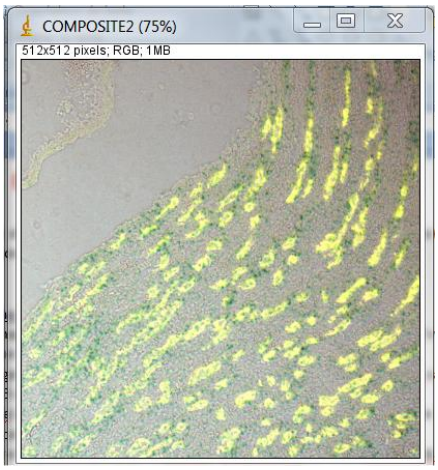
• A stack with the color image, the fluorescent image, and the overlay (named from the "imagename" and "extnumber"),

OR

• A color image alone (named from the "imagename" and "extnumber") if there is no fluo image.



Overlay with fluorescent image



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