MshOt

Digital Imaging Analysis System

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Fluorescence imaging functions

Routine functions
Histogram
Merge channels
Shifting correction
Featured function
Dynamic multi-image merge
Other functions
Split RGB channel
Graying
Line profile
Quicky RGB dye

Coming functions: Auto image splicing ,Auto extend depth of field

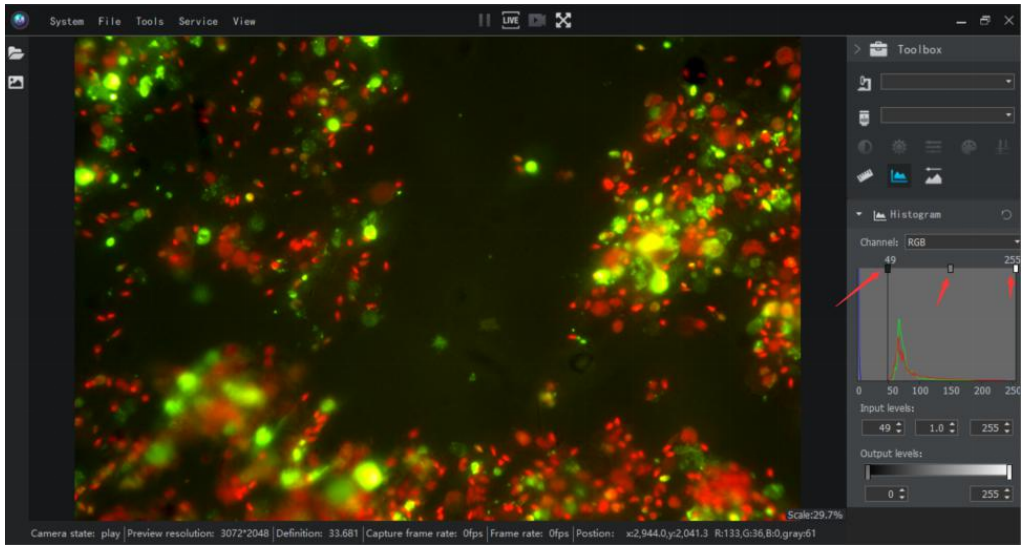
How to get a good fluorescence image?

1. Open software - 2.double click the fluorescence image - 3. Choose 'Histogram' Tool

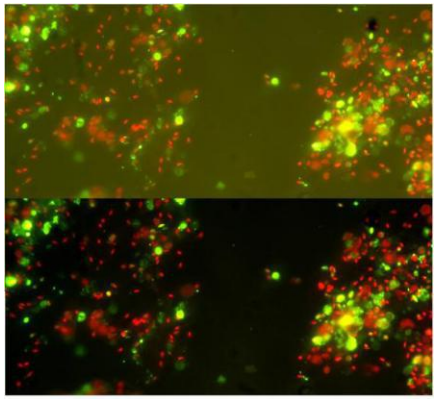
Adjust 'Min. value' from 0 to bigger - get darker background

Adjust 'Max. value' from 255 to smaller - get brighter fluorescence signal

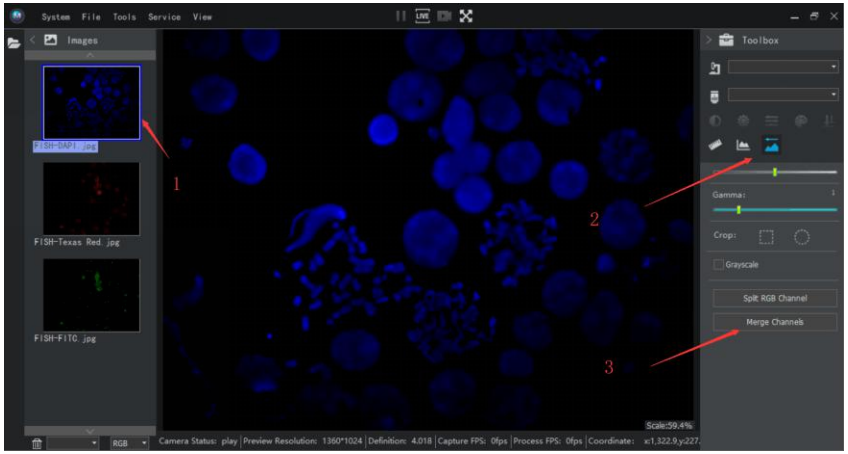
(Midline bard does not need to change in general, input level does not need to change)



Before

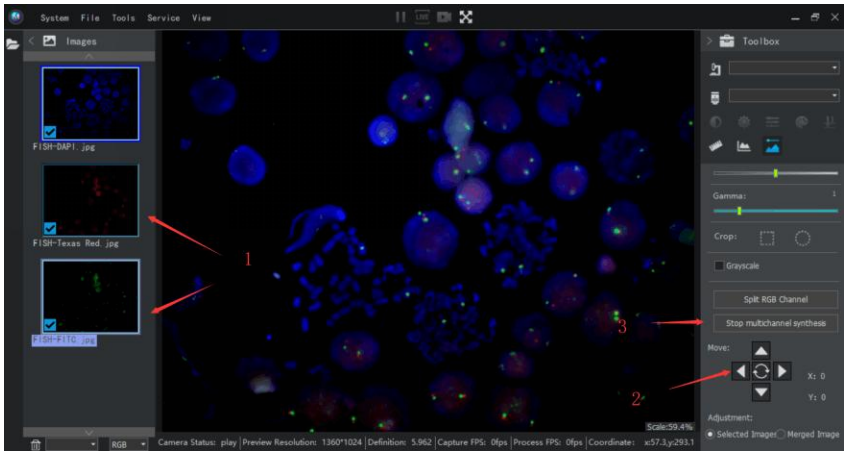


After



Merge channels

1. Choose image - 2.Choose 'Static image processing' - 3.Choose 'Merge Channels'

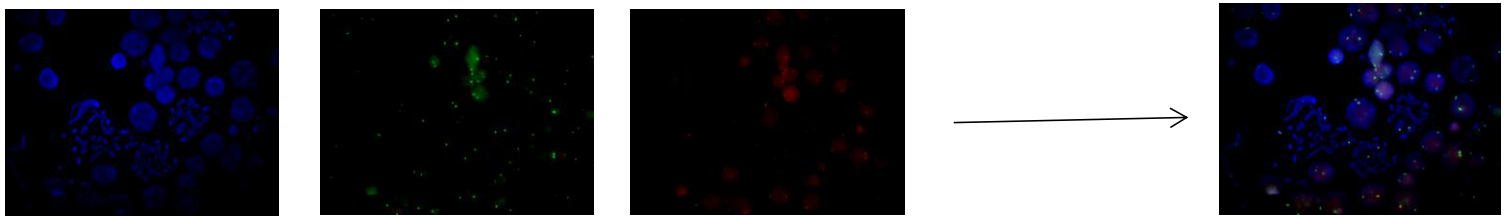


Merge channels

1. Add images - 2. shiffing correction (if needed) - 3. Stop merge to save image.

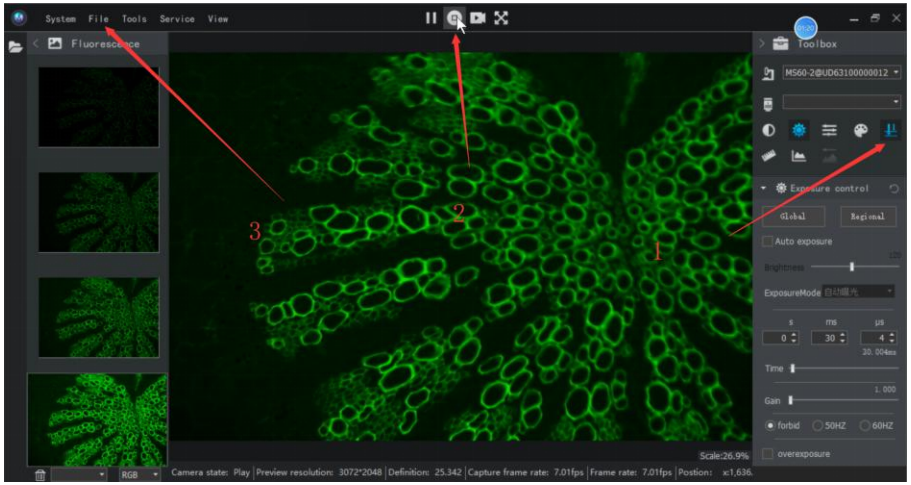
*Max. 5 images in total,

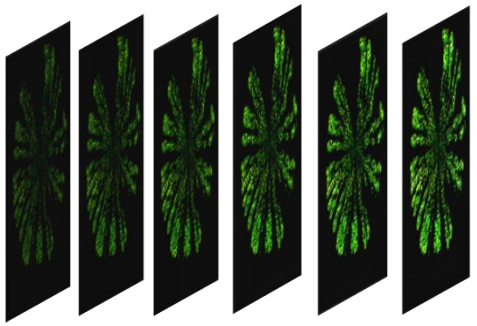
*Merging of phase contrast, bright field with fluorescence are workable



Featured funtion: Dynamic multi-Images merge (Turn weak fluorescence to bright fluorescence)

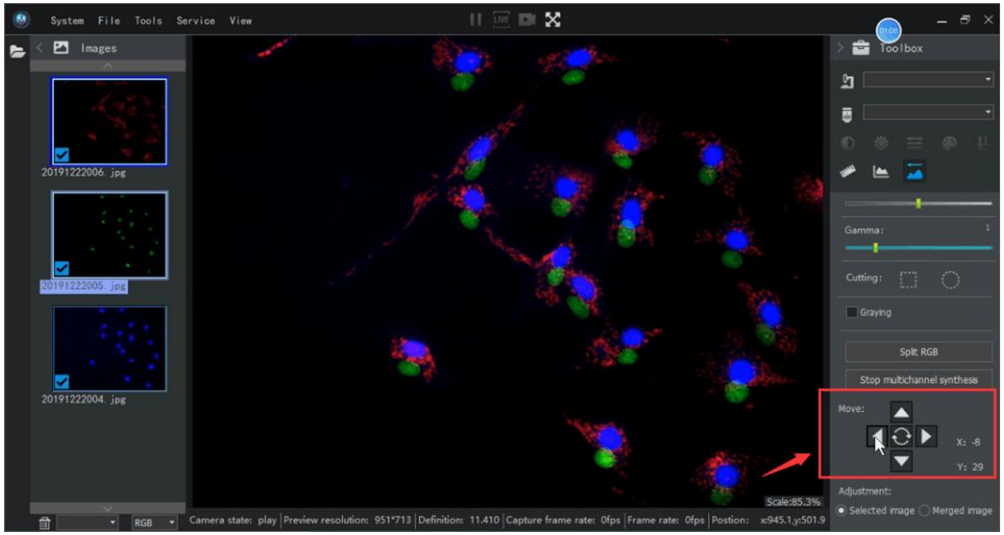
- In time merging max. 7 different exposure images to one better image, reduce image noise image.
- 1. Choose ' Dynamic multi-image merge' tool - 2. Click ' Capture' button - 3. Open ' File' Save well done image

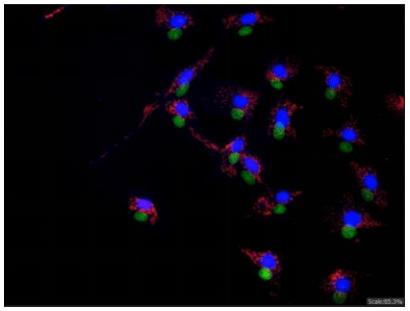




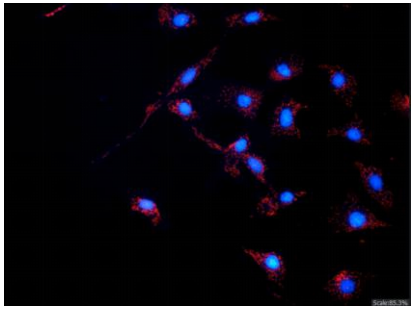
Shifing correction

- Different fluorescence dye images of one specimen might be out of original position because external move and microscope quality, we call it shifting, the tool can move any image position you want to correct shifing.





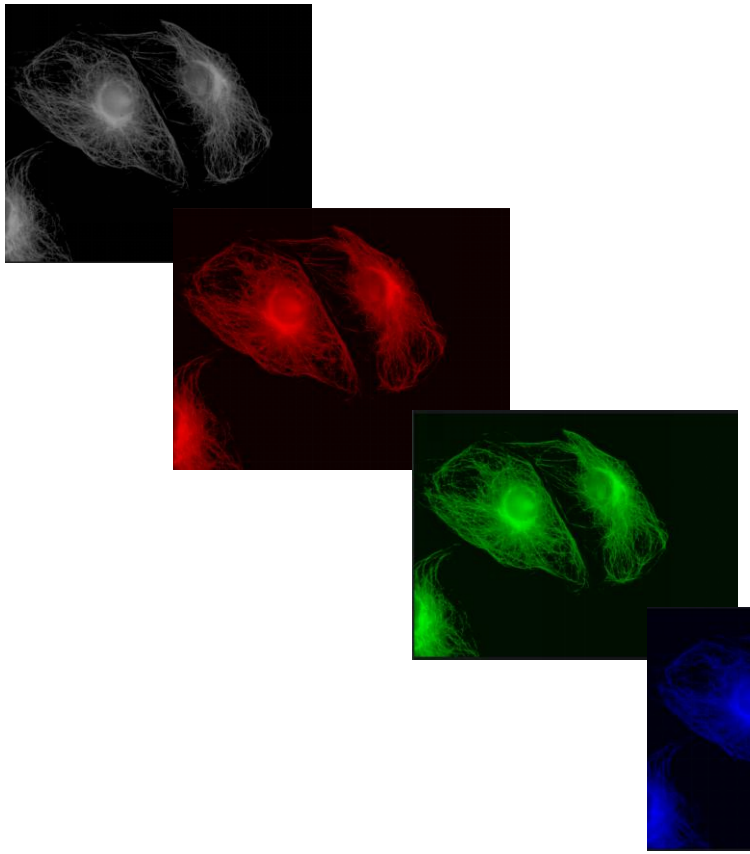
Before

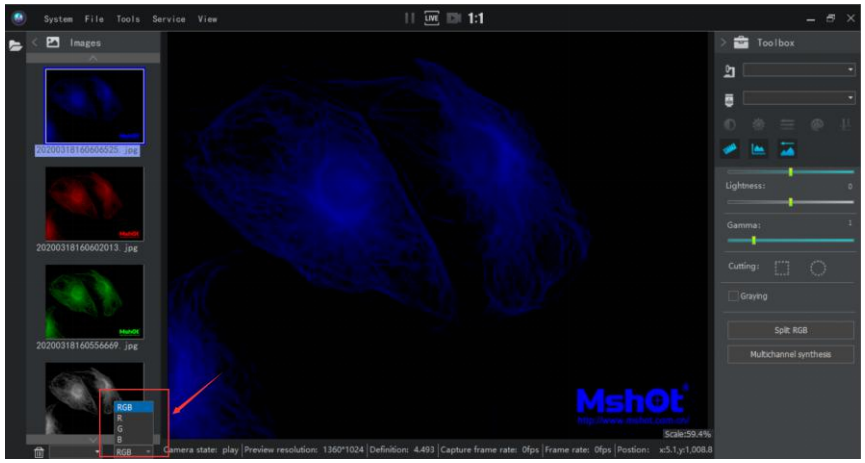


After

Quickly dye

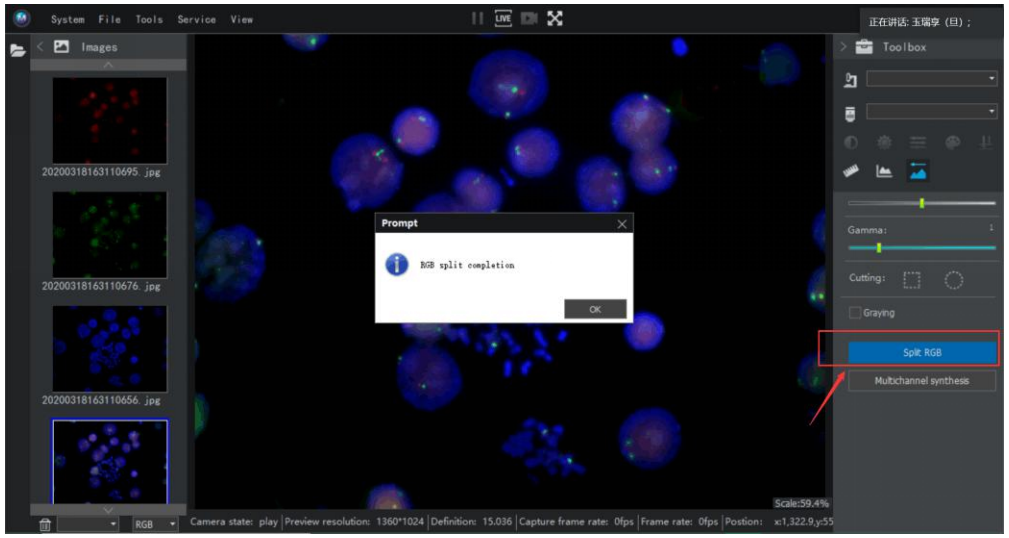
- Just choose R/G/B channel to dye the monochrome fluorescence image for quilkly observation.

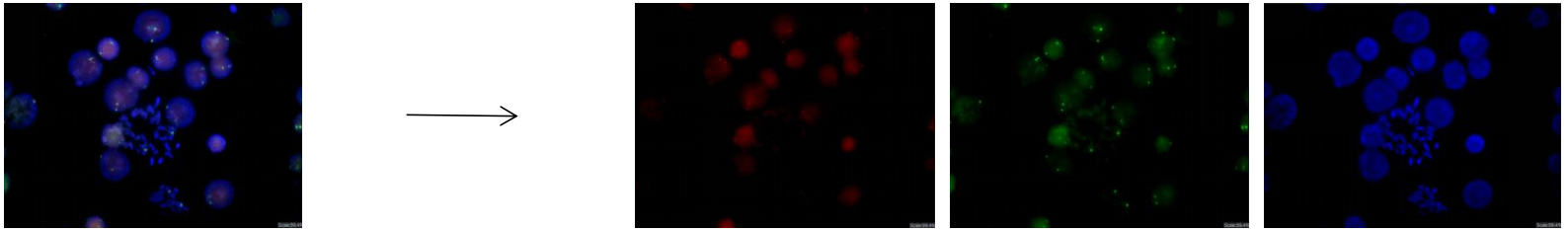




Split RGB

- One-push split a multi-channel fluorescence image into single channel images by Red, Green and Blue to quickly seperate different fluorescence signal.





Line profile

- Show light intensity of different specimen area.