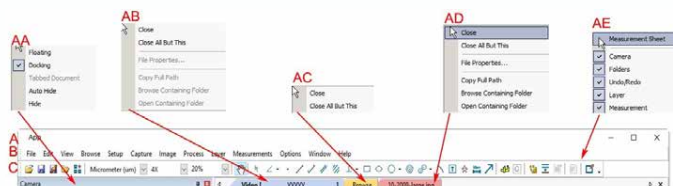
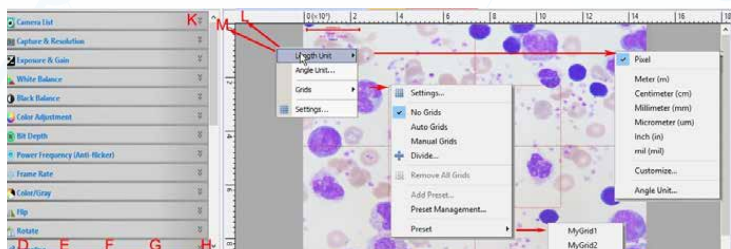


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Video window GUI



A: The App title bar

B: Menu;

C: App toolbar

D: Camera Sidebar ;

E: Folders Sidebar ;

F: Undo/Redo Sidebar ;

G: Layer Sidebar ;

H: Measurement Sidebar ;

I: Measurement Sheet;

J: Statusbar;

K: Auto Hide button

L: Horizontal ruler;

M: Vertical ruler

N: Frame Rate

O: Frames captured

P: Current Video sizes

Q: The selected microscope Magnification

R: Cooling Temperature

S: Current Unit;

AA: Sidebar right mouse button context menu;

AB: Video window right mouse button context menu;

AC: Browse window right mouse button context menu;

AD: Image window right mouse button context menu;

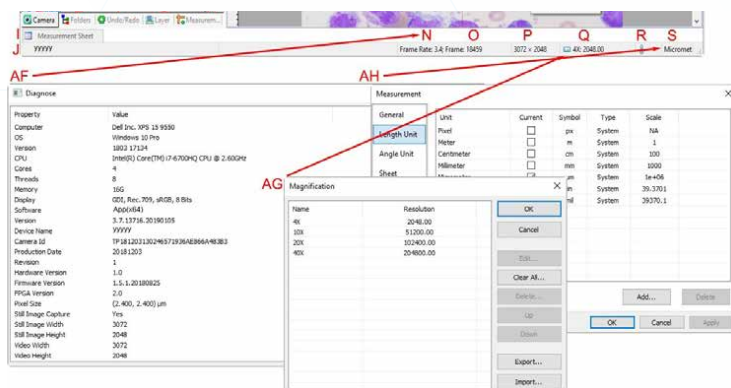
AE: Frame window right mouse button context menu;

AF: Double-click bring up Diagnose dialog;

AG: Double-click bring up Magnification dialog;

AH: Double-click bring up Measurement dialog;

AI: Horizontal Ruler or Vertical Ruler right mouse button context menu



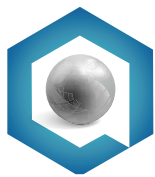
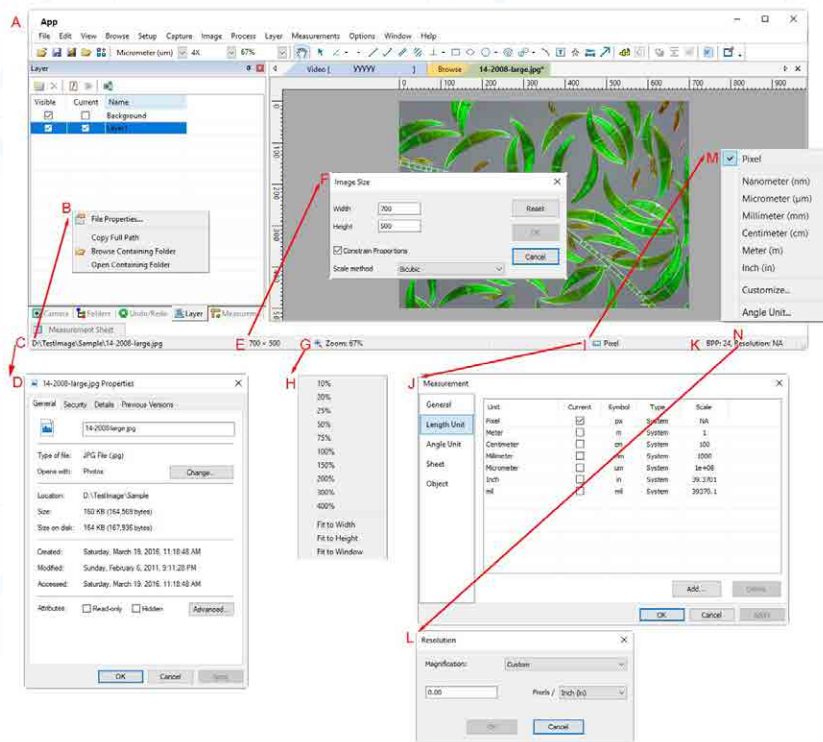


Image window GUI



A: The App title bar;

B: The opened file right mouse button context menu on status bar;

C: The opened file name and directory;

D: Double-click bring up opened file Properties dialog;

E: Current image width and height;

F: Double-click bring up Scale Image dialog;

G: Image Zoom ratio, double-clicking will zoom the image to 100%;

H: Zoom ratio right mouse button context menu;

I: Currently selected Unit;

J: Double-click bring up Measurement dialog;

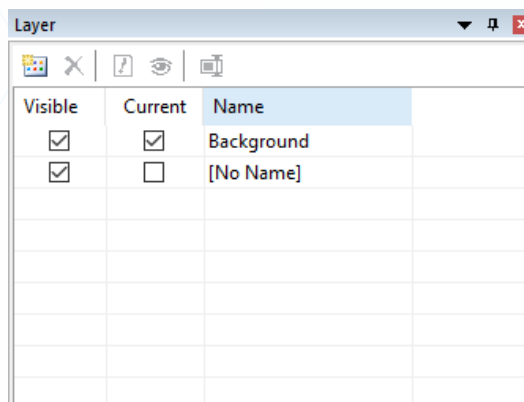
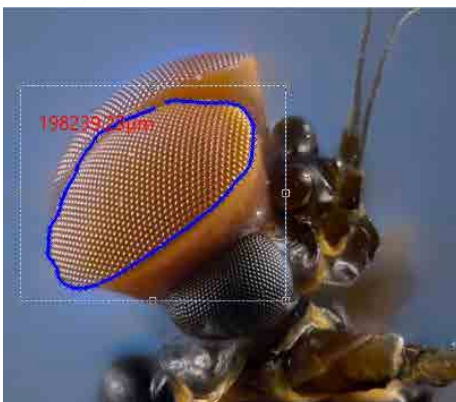
K: Image BPP & Resolution;

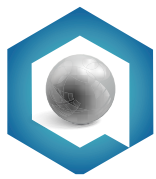
L: Double-click bring up Resolution Setting dialog;

M: Unit right mouse button context menu;

N: Calibrated Resolution.

Image Select

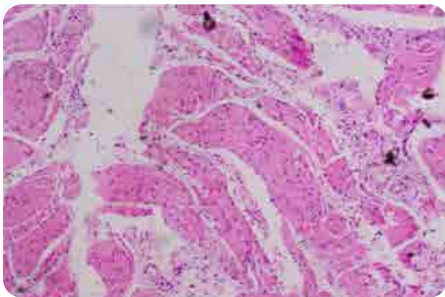




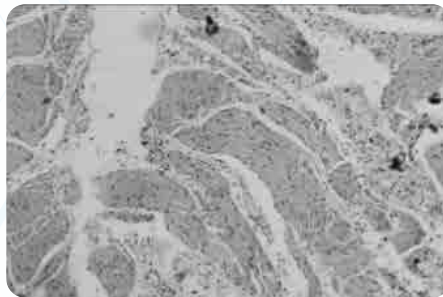
DIGITAL CAMERA 10MP

REF: ISH1000

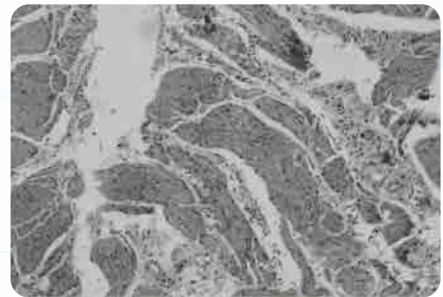
Image - Mode



Original microscopic image



Traditional Gray Scale method



Contrast Preserving Decolorization

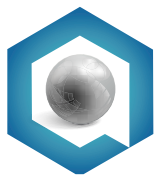
Detail Enhance



Original image



Enhanced image

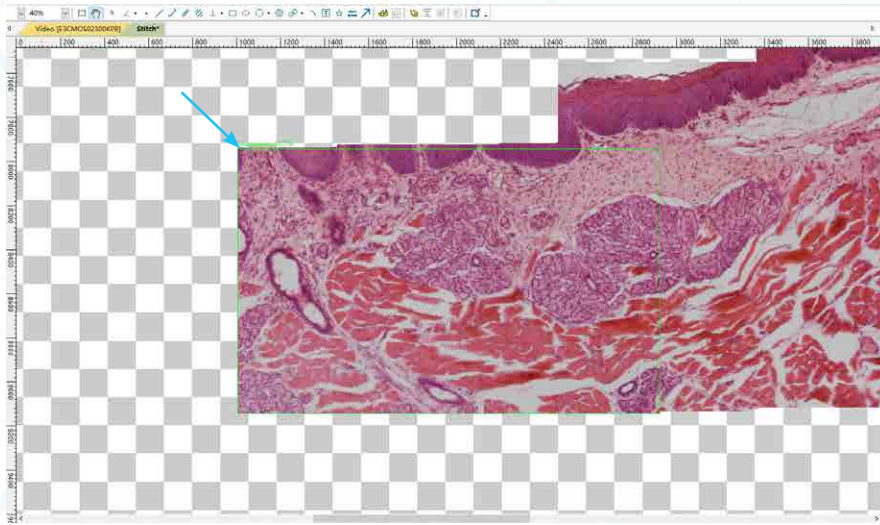


DIGITAL CAMERA 10MP

REF: ISH1000

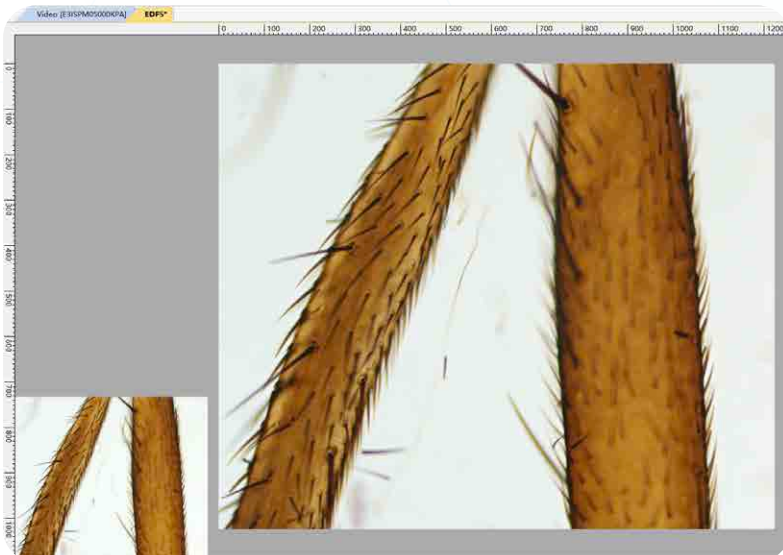
Live Stitch (Video)

Live Stitch allows real time stitching in video mode.



Video Window EDF

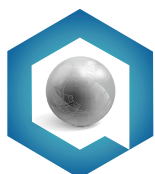
Live EDF allows you to capture a fully-focused image for specimens whose thickness exceeds the microscope depth of field. Live EDF solves the depth of field issues that often plague Entomologist, Botanists, and Parts and Material manufacturers.



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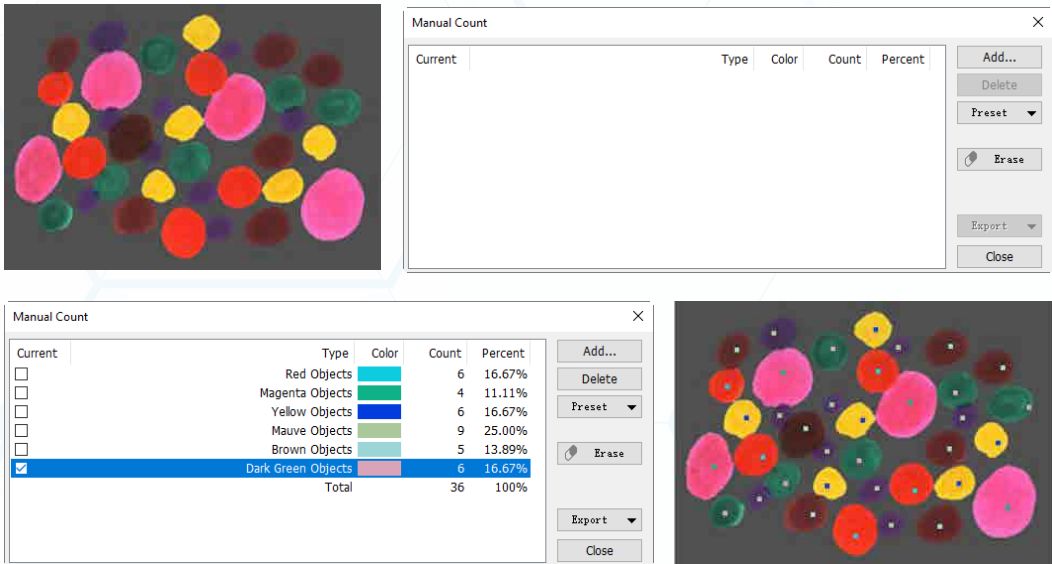
info@quimicompany.com.co



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REF: ISH1000

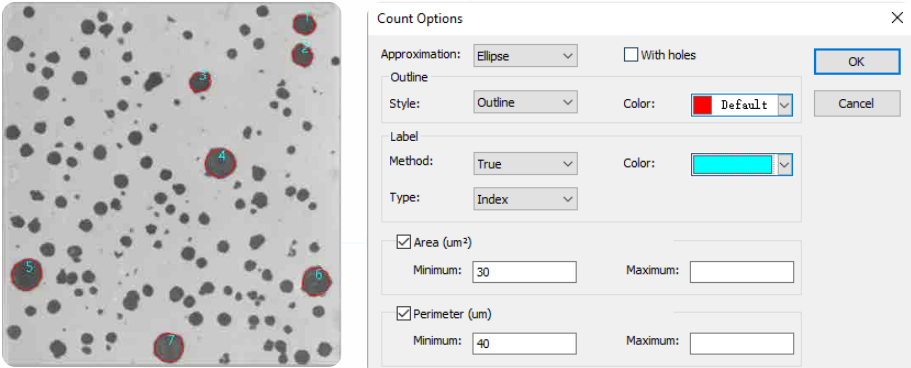
Manual cell counting



Manual Count

Current	Type	Color	Count	Percent
☐	Red Objects	Red	6	16.67%
☐	Magenta Objects	Magenta	4	11.11%
☐	Yellow Objects	Yellow	6	16.67%
☐	Mauve Objects	Mauve	9	25.00%
☐	Brown Objects	Brown	5	13.89%
☒	Dark Green Objects	Dark Green	6	16.67%
Total			36	100%

Area - Perimeter



Count Options

Approximation: ☐ With holes

Outline
Style: Color:

Label
Method: Color:

Type:

☒ Area (um²)
Minimum: Maximum:

☒ Perimeter (um)
Minimum: Maximum:

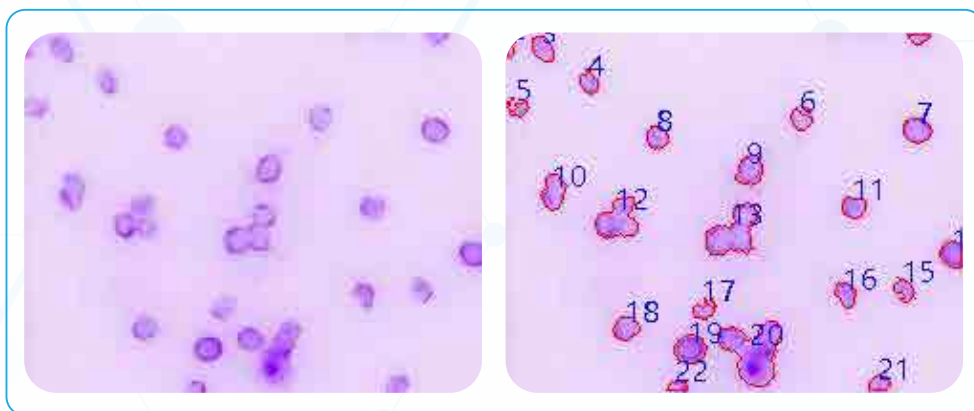
DIGITAL CAMERA 10MP

REF: ISH1000

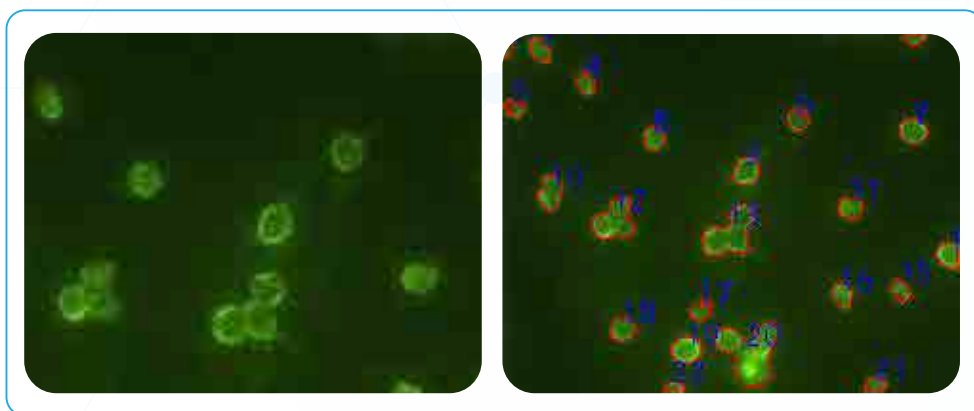
Perimeter

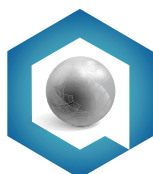
OTSU Dark

OTSU Bright segmentation method means segment the bright object from the dark background using OTSU algorithm.



OTSU Bright

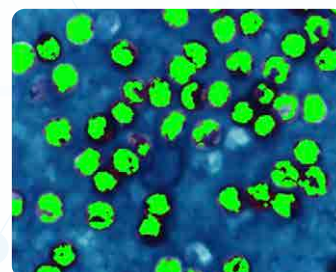
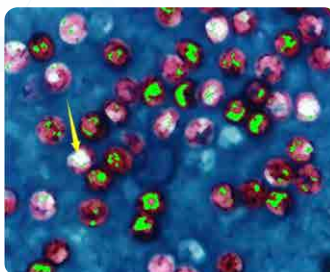
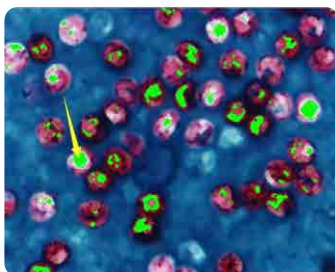
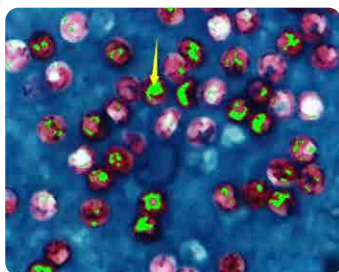




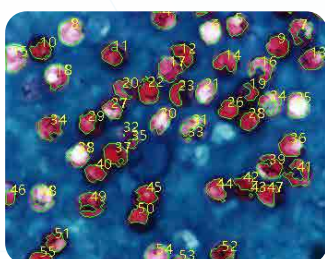
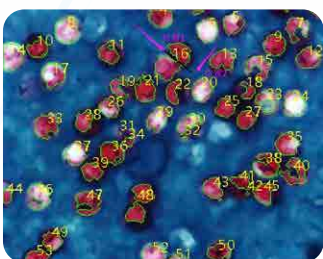
DIGITAL CAMERA 10MP

REF: ISH1000

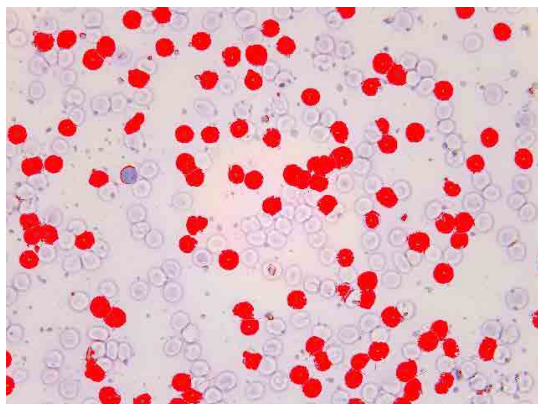
Colorizing Pipette



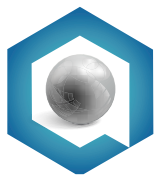
Split Objects



Count Result



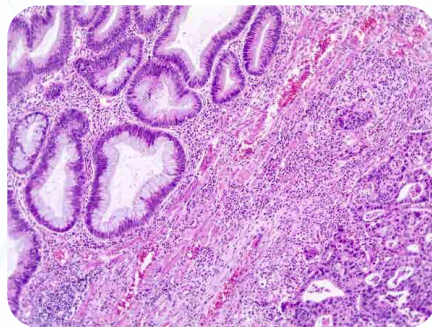
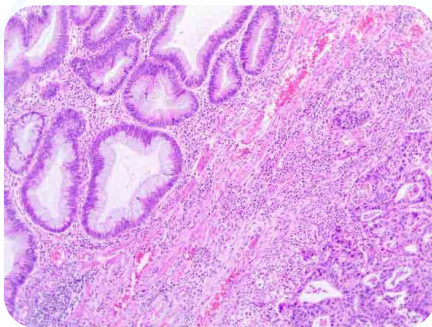
Result			
Index	Center	Area	Perimeter
1	(435045.34, 510105.56)	262971304.25	96385.44
2	(588321.65, 510550.62)	285897725.69	88308.52
3	(198188.79, 503401.51)	380718604.60	129547.81
4	(162126.44, 497422.19)	438507187.50	114939.31
5	(338798.96, 485907.29)	392794353.30	110010.81
6	(98292.71, 477705.21)	10115627.17	38881.40
7	(635766.04, 482307.67)	394649468.32	103853.40
8	(77787.50, 471619.79)	466823943.14	135443.85
9	(248046.87, 471487.50)	449777886.28	133444.57
10	(46657.18, 471369.13)	466893947.48	215270.13
11	(218678.12, 457200.00)	3640225.69	24711.28
12	(359436.46, 463946.87)	430631699.22	133198.79
13	(203580.40, 462205.22)	434271924.91	118616.89
14	(146314.58, 451379.17)	3850238.72	31189.68
15	(127264.58, 462491.67)	502281141.49	129596.43
16	(184414.58, 449130.21)	13545839.84	21434.48
17	(320220.70, 451830.08)	596681994.36	135224.66
18	(320220.70, 451830.08)	596681994.36	135224.66



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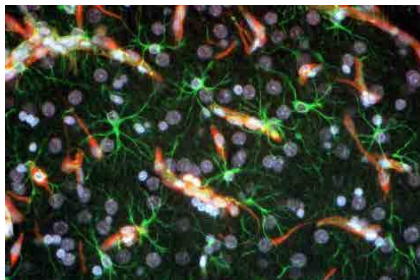
REF: ISH1000

Histogram Equalization

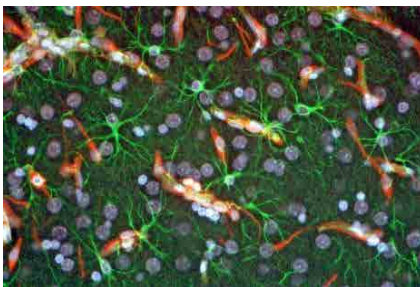


LCC

The Local Color Correction algorithm



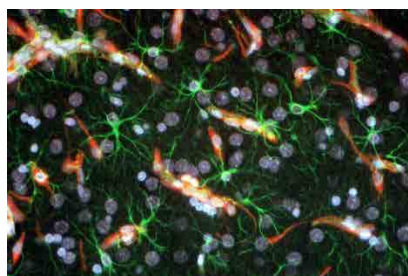
Original image



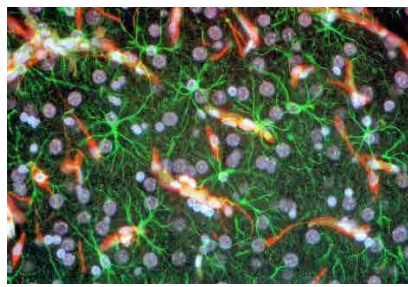
Enhanced image

AMSR

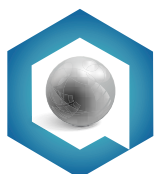
Adaptive Multi-scale Retinex



Original image



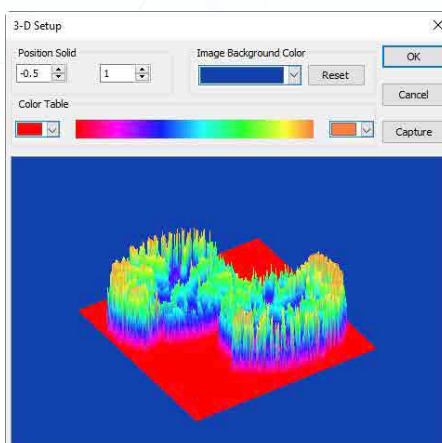
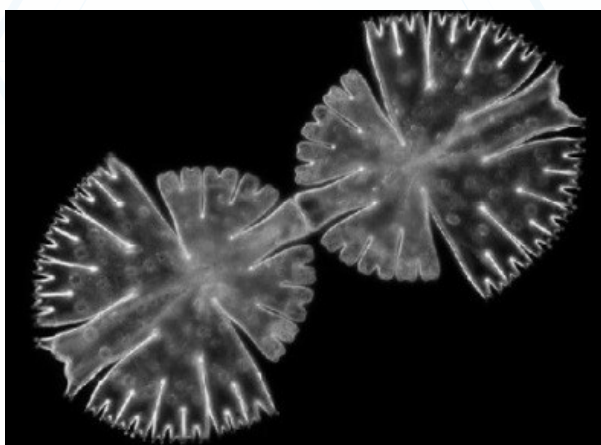
Enhanced image



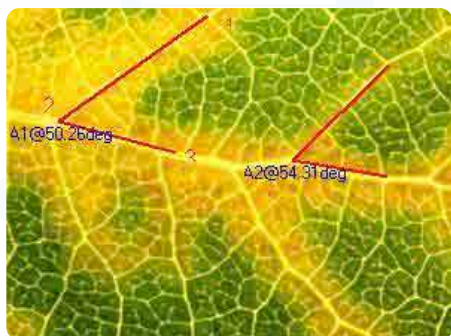
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REF: ISH1000

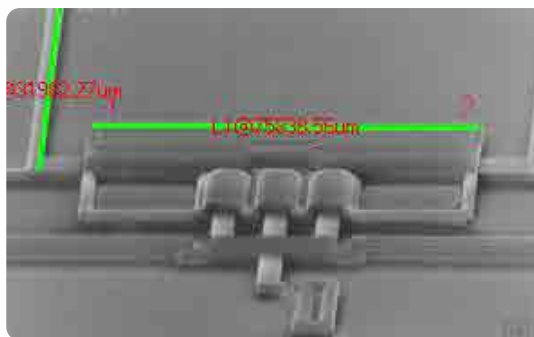
Surface Plot

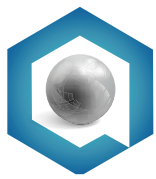


Angle



Line

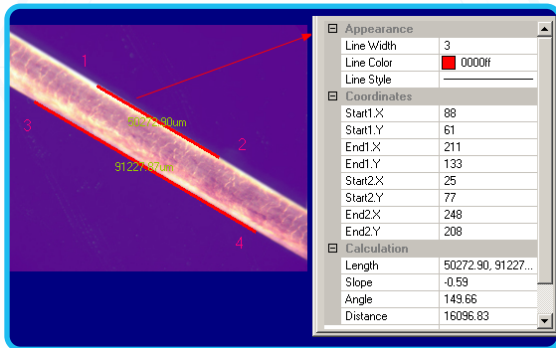




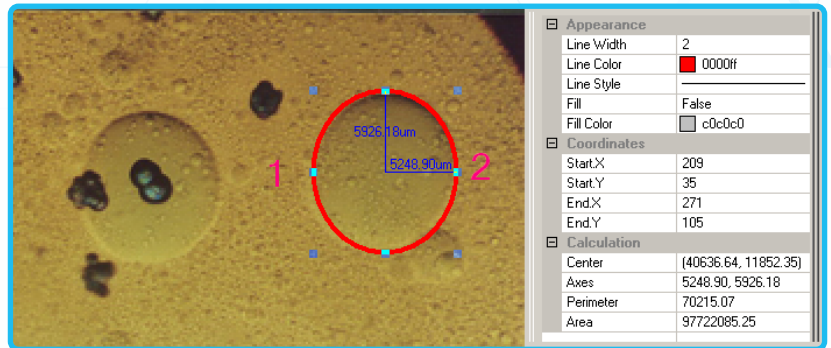
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REF: ISH1000

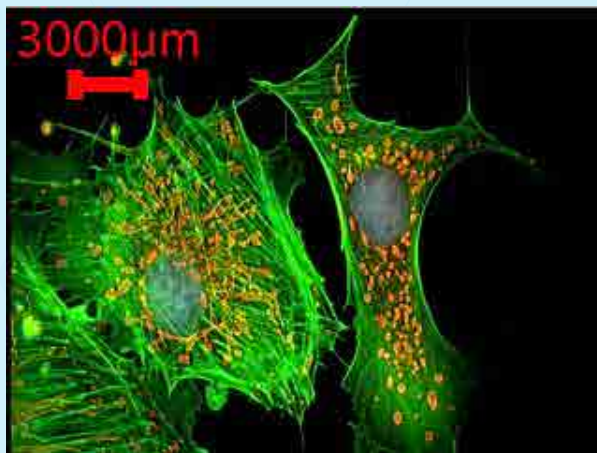
Parallel



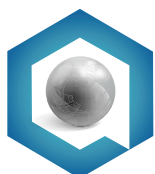
Ellipse



Scale Bar



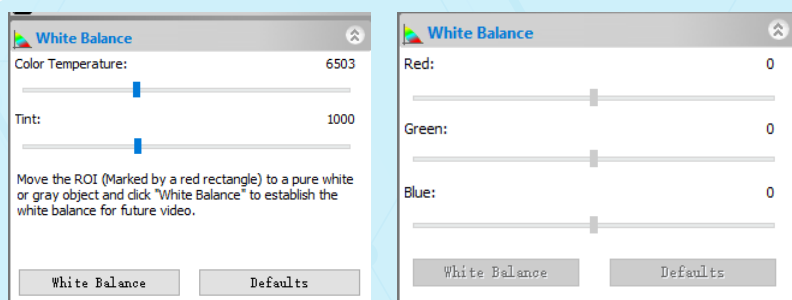
Appearance	
Line Width	8
Line Color	ff0000
Font Size	11
Font Weight	Normal
Text Color	ff0000
Transparent Background	True
Background Color	ffffff
Rotate	180°
Length	0°
Calculation	90°
Coordinates	180°
Start. X	443
Start. Y	35



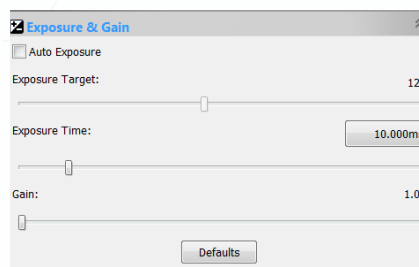
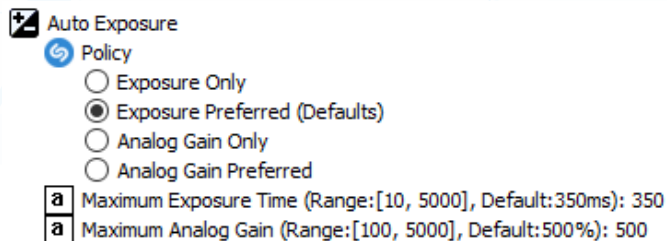
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REF: ISH1000

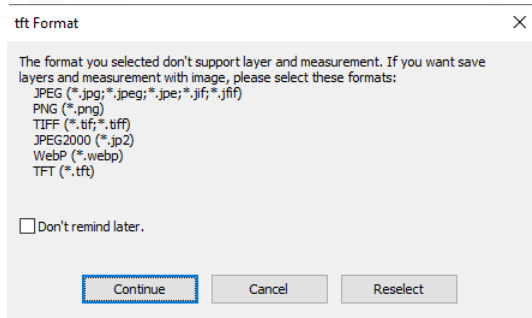
White Balance(Take effect after restarting the App)



Auto Exposure



File Format



The current formats supporting Layer Objects are JPEG, PNG, TIFF, JPEG2000, WebP and TFT.

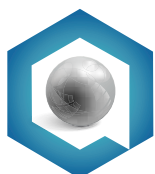
Language (Take effect after restarting the App)



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Scale

Measurement

General

Length Unit

Angle Unit

Sheet

Object

Unit	Current	Symbol	Type	Scale
Pixel	☐	px	System	NA
Meter	☐	m	System	1
Centimeter	☐	cm	System	100
Millimeter	☐	mm	System	1000
Micrometer	☒	um	System	1e+06
Inch	☐	in	System	39.3701
mil	☐	mil	System	39370.1

Add... Delete

Add Unit

Name: Decimeter

Scale Factor: 10

Symbol: dm

OK

Cancel

1. Scale factor is the ratio between meter and the specific unit. For example: Meter by millimeter is 1000 which can also be expressed as scientific notation 1e3. Meter by kilometer is 0.001, which is noted as 1e-3.

2. Symbol: such as "m" for meter, "cm" for centimetre.

Magnifications

If one has defined the 4X, 10X and 40X Magnifications, the Magnification dialog should look like the figure on the right side.

Magnification

Name	Resolution
4X	2048.00
10X	51200.00
40X	204800.00

OK

Cancel

Edit...

Clear All...

Delete...

Up

Down

Export...

Import...

Calibrate

Magnification

Actual Length

Pixel

Resolution

Pixel/Meter

Actual Length

4X

10X

40X

100X

1000.000

Pixel/Meter

Actual Length

Calibrate

Magnification

Actual Length

Pixel

Resolution

Pixel/Meter

Actual Length

10X

40X

Micrometer (um)

574.000

1275556

Pixel/Meter

Actual Length