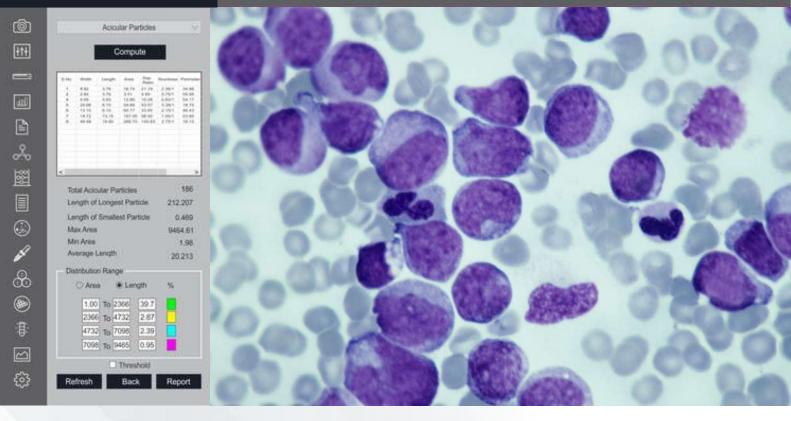# Biosoft

Introduction of Biosoft

Biosoft is simple image analysis software for microscopy with an intuitive user interface and simple to use navigation with a suite of image processing techniques, measurements and enhancement tools that set it apart from other mainstream softwares. Such image processing softwares are now being extensively used in a number of diverse fields such a medicine, biological research, cancer research, drug testing etc.

Biosoft

Live Biological Microscope measurement - Biosoft

Threshold Particle Measurement

- Manual, Auto bright and Auto dark methods to identity intensity range defined object to be measured. Various calculation & measurements available for selected Particle are; Dimensions, Area, Perimeter, Ferrite Length, Min/Max Radius, Thread Length, Thread Width, Fiber Length, Fiber Width.

Segmentation

- Measure area fraction & volume fraction. Identify multiple phases within Microstructure. Also delineate phases from the histogram.

Report

- Three options: Direct printout with original image processed Image & Tabular results
- Export to MS Office or Excel for further modification.

Count & Classification

- Identification of objects in an image, count them, obtain several features measurements. Objects identification by user or automatically. User defined classification on basis of size or intensity.

Image Editing

- Cut/Copy/Paste, selected copy by free hand AOL. Resize, Crop/Duplicate/restore, conversion to other format like BMP,JPG,TIF, Annotation like, free hand drawing, straight line, square, Circle, arrow, Text, highlighter etc, pointer, eraser.

View

- Zoom in/Zoom out, rotation 90°,180°,27°, horizontal flip/vertical flip, Redo/Undo, Intensity histogram.

Image Processing

- Background subtraction, contrast enhancement, boolean math, ADD,OR,XOR etc.

Routine Filters

- Invert, Brightness, Contrast, Hue, Saturation, Blur. Noise removal, Gamma RGB, etc.

Edge Detection & Morphology Function

- Lap-lacing, sobel, Kirsh, Skelotizing, pruning, histograme equalization, histogram smoothing etc.

Measurement

- Spatial calibration
- Line measurements for Distance, Length, Width, Perimeter, Angle, Three Point Radius.
- Area by enclosed line controlled by four arrow keys available on keyboard arrows with zoomed preview.

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