



# VideoTest-Morphology

## Image Analysis in biology and medicine

**VideoTest-Morphology** image analysis software provides enhancement and measurement of the images acquired with a CCD camera installed on the microscope. The analysis data are processed statistically. The images and data can be stored in VideoTest-Album Image Database. VideoTest-Master (Morphology) can be used as general-purpose image analysis software. It also includes several pre-installed methodics (macros) for specific bio-medical applications.



### VideoTest-Morphology main functions:

- Image acquisition with CCD camera or scanner, open images from files, paste them from the clipboard
- Image enhancement and annotation
- Manual measurements of linear parameters and angles
- Automatic and manual objects' thresholding and segmentation
- Automatic measurement, recognition, and classification of the objects
- Statistical treatment of the analysis data
- Stereology analysis
- Data export to MS Excel for additional statistical treatment
- Save images to .bmp, .pcx, .tiff, .gif, .jpeg files
- Print images and data
- Six pre-installed methodics (macros): Measure, Count and Measure, Volume Fraction, Platelets Count, Erythrocytes Sizing, NCR
- Ability of user to create, copy and modify macros
- VideoTest-Album 3.0 image database included

**VideoTest-Morphology** includes 6 pre-installed methodics (macros):

#### Measure

Objects' thresholding and measurement.

#### Count and Measure

Objects' thresholding, measurements, and automatic classification.

#### Volume Fraction

Thresholding the image phases. The thresholded phases are measured, and the area percentage of different phases is calculated.

#### Platelets Count

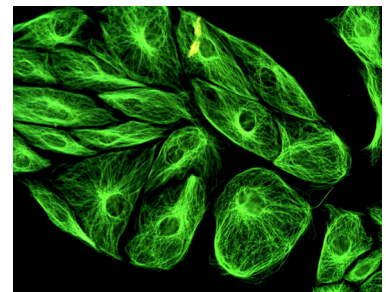
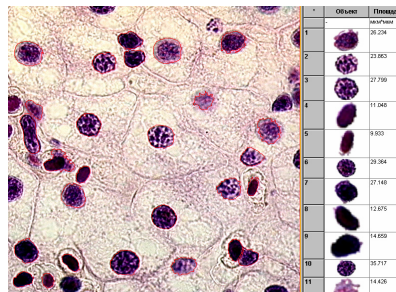
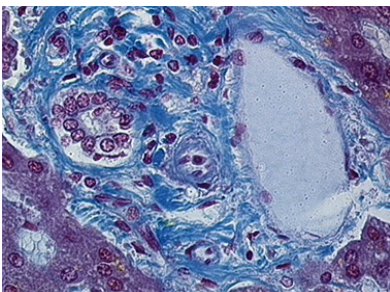
Thresholding the erythrocytes and platelets, their recognition and count.

#### Erythrocytes Sizing

Thresholding the erythrocytes, their measurement and classification by size.

#### Nuclear-Cytoplasm Ratio (NCR)

Calculation of the area ratios (nucleus to cytoplasm).



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