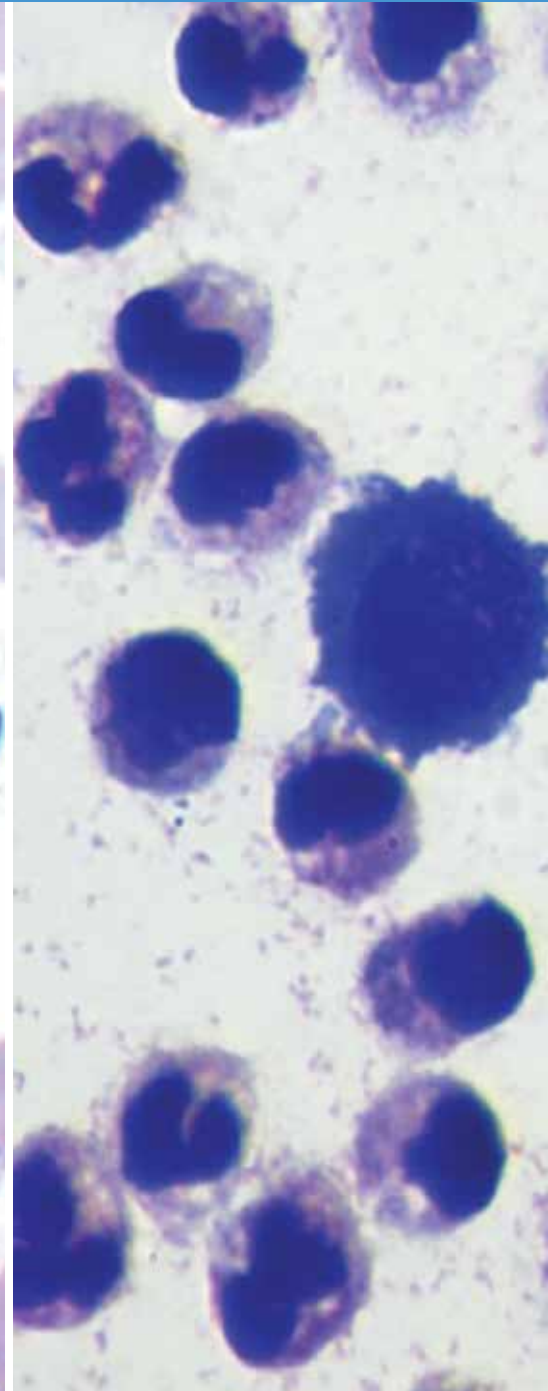
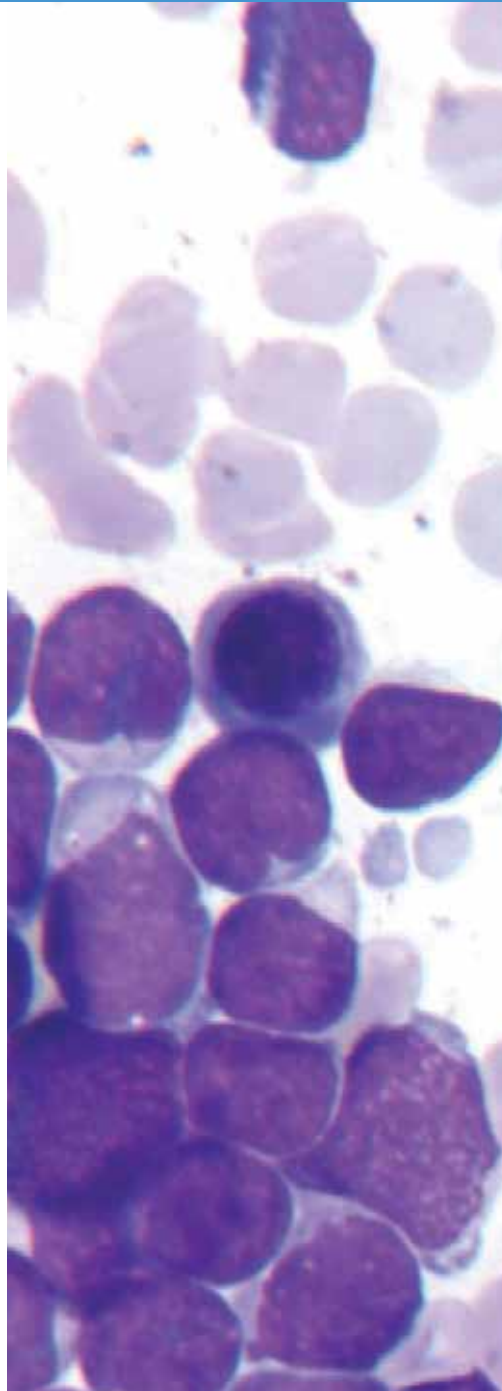
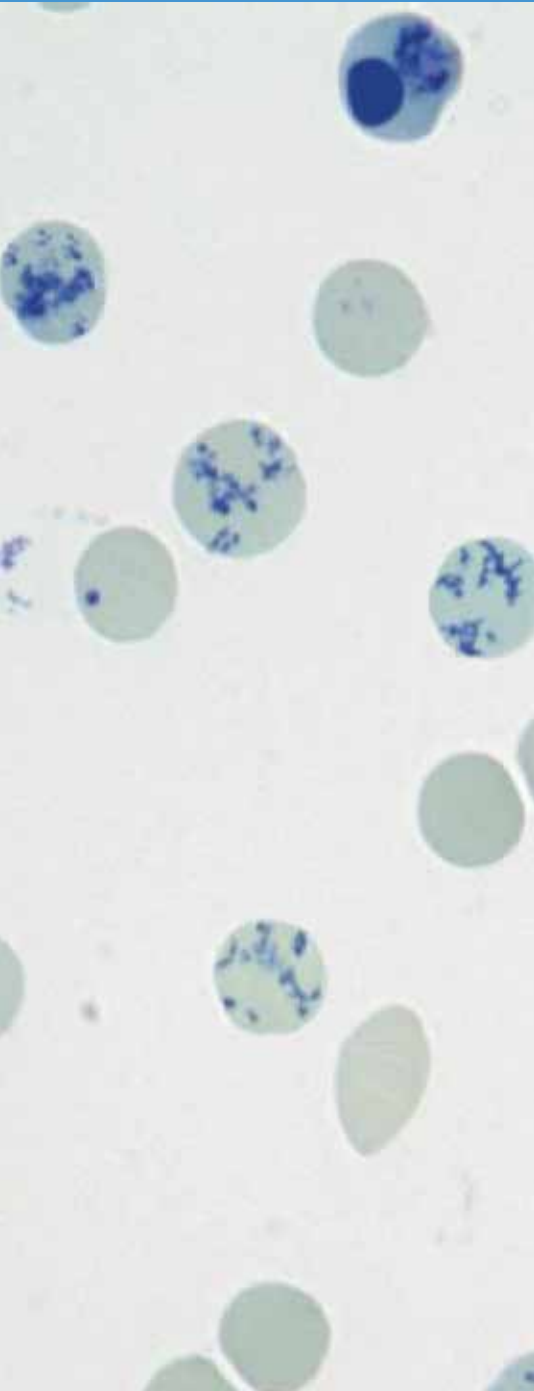


Vision Hema[®]

Additional modules



Vision Hema[®] RTC

Digital morphology of reticulocytes

Innovative solution for the study of reticulocytes

Reticulocytes

Reticulocytes — young erythrocytes that appear in the bone marrow and are present in the blood in minor quantities.



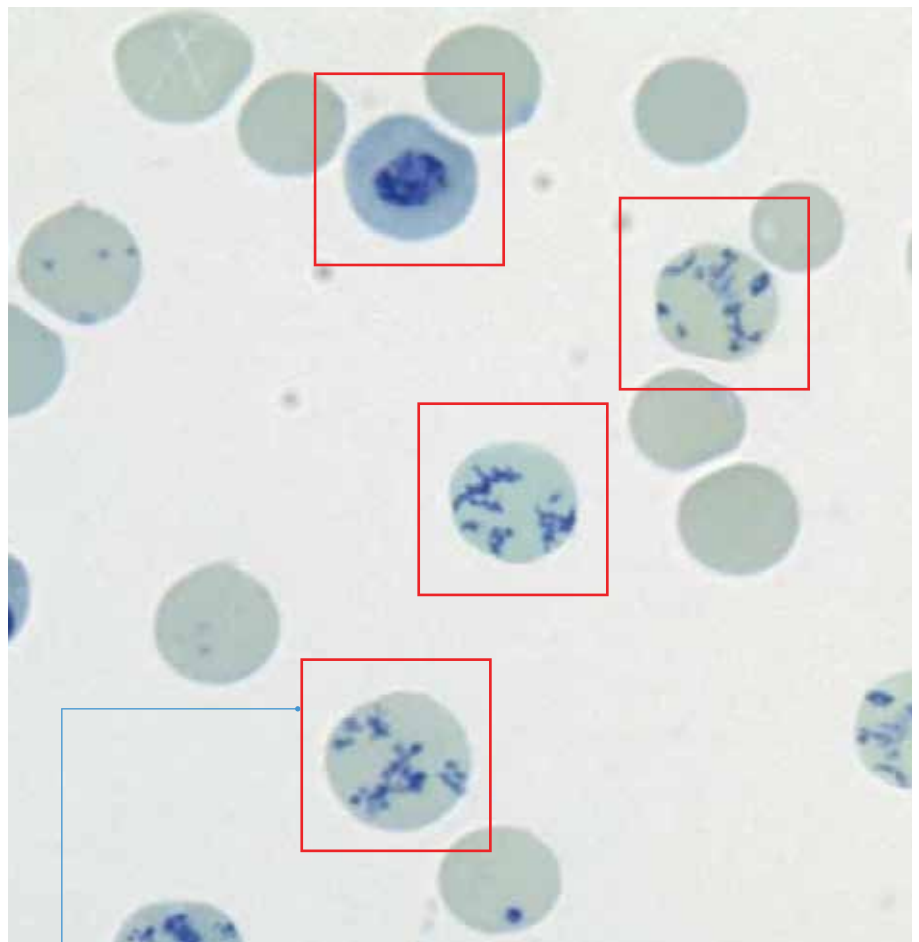
They are a transitional form between erythrocytes in the bone marrow and mature erythrocytes in the blood flow.

Importance of study

Correct reticulocyte count is needed to diagnose anemia, clarify its causes and monitor the effectiveness of treatment. Furthermore, reticulocyte study is included in many screening protocols of various conditions and diseases.

1

Automatic capture of 1000 erythrocytes, detection and count of reticulocytes

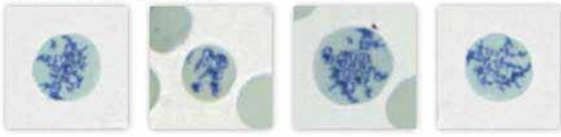


When a reticulocyte is in the field of view, the system automatically identifies and highlights it with a «frame».

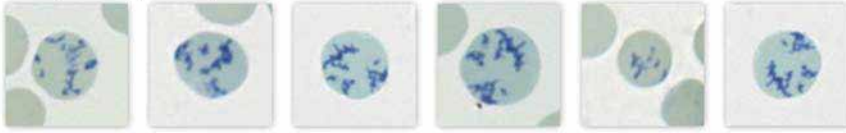
2

Pre-classification of reticulocyte cells and creation of galleries

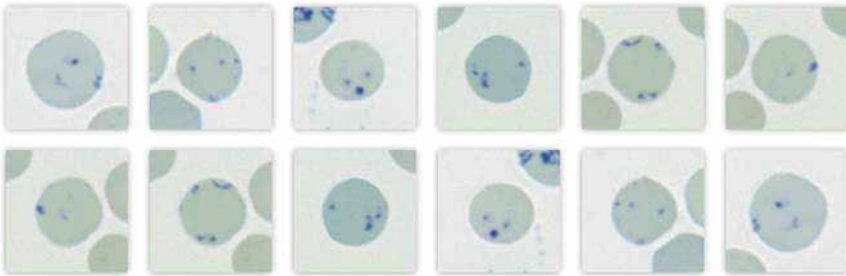
▲ Reticulocyte class II (Elements: 4)



▲ Reticulocyte class III (Elements: 6)



▲ Reticulocyte class IV (Elements: 12)



3

Calculated parameters

Reticulocyte count

- RTC ‰ (reticulocyte count per 100 erythrocytes)
- RTC % (number of reticulocytes per 100 erythrocytes)
- RTC # (number of reticulocytes in 1 liter of blood)

Reticulocyte differential count

- RTC R0 %, #, abs
- RTC R1 %, #, abs
- RTC R2 %, #, abs
- RTC R3 %, #, abs
- RTC R4 %, #, abs

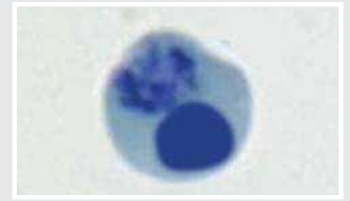
Distribution of reticulocytes by maturation

- H RET %, #, abs
- M RET %, #, abs
- L RET %, #, abs

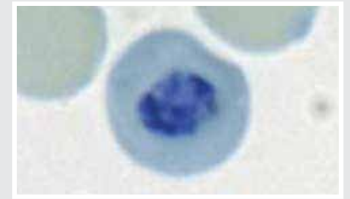
Reticulocyte indices

- RI (reticulocyte index)
- RPI (reticulocyte production index)

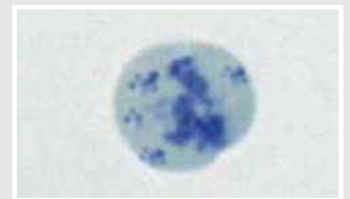
Classes of reticulocytes



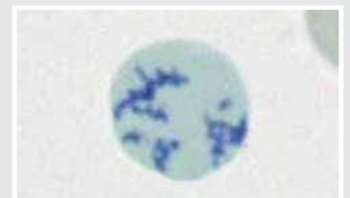
Nucleated reticulocyte class 0
R0 / H RET



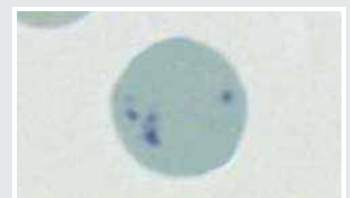
Reticulocyte class I
R1 / H RET



Reticulocyte class II
R2 / M RET



Reticulocyte class III
R3 / L RET



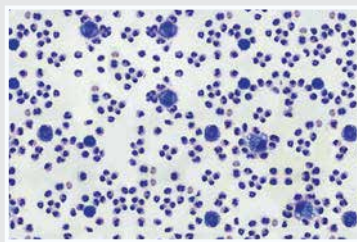
Reticulocyte class IV
R4 / L RET

Vision Hema[®] Body Fluids

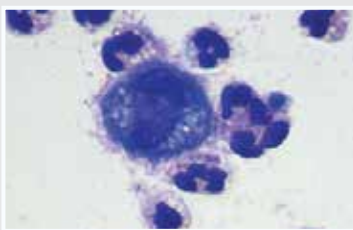
Cell morphology in human body fluids

Count and study of cells in human body fluids

Preview of the whole sample with 100x magnification as well as a detailed study with 1000x magnification

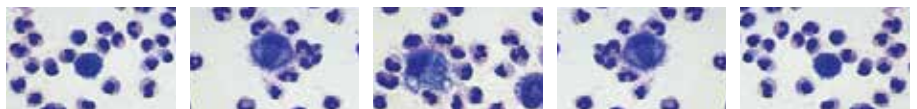


100x



1000x

1 Automatic scanning of a virtual sample and creation of gallery of analysed areas



2 Add text comments to human fluid digital samples

3 Marks on areas with pathology



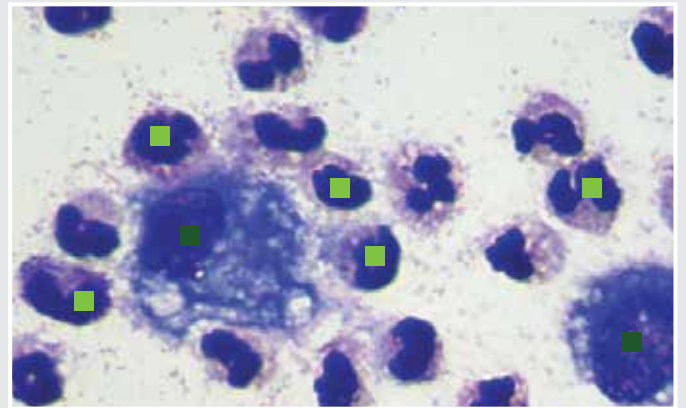
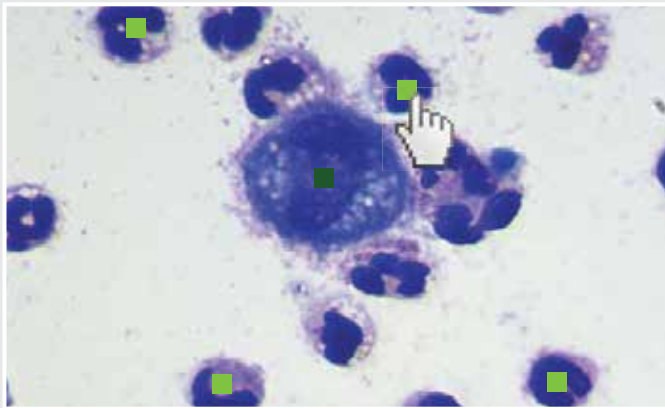
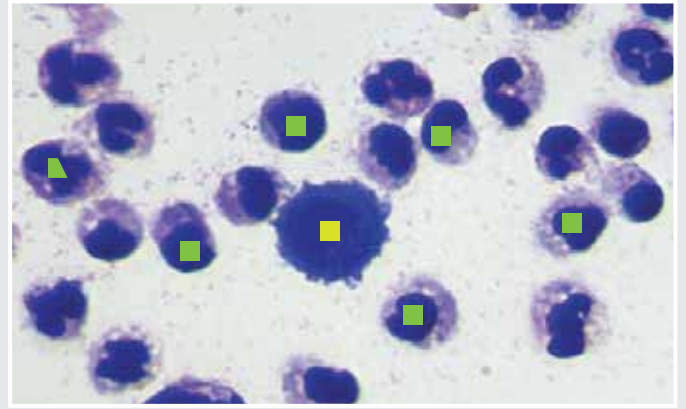
4 All data are saved automatically, excluding any possibility of losing analysis results

5 Continuous professional development of lab technicians

6 Benefit from knowledge and experience of your colleagues

Count and classification of cells and elements

Use "Shortcut" keys when counting elements to save time spent on analysis.



Colour indication of cell type in body fluids

Bone marrow

- Reticular cells
- Undifferentiated blasts
- Myeloblasts
- Neutrophils
- Eosinophils
- Basophils
- Lymphocytes
- Monocytes
- Plasma cells
- Erythroid cells
- Leukoerythroblastic ratio

Effusion

- Mesothelial cells
- Lymphocytes
- Neutrophils
- Eosinophils
- Monocytes
- Macrophages
- Normal erythrocytes
- Abnormal erythrocytes
- Plasma cells
- Signet ring cells
- Atypical cells
- Microorganisms

Cerebrospinal fluid











- Normal erythrocytes
- Abnormal erythrocytes
- Neutrophils
- Lymphocytes
- Monocytes
- Plasma cells
- Arachnoidal cells
- Ependymal cells
- Atypical cells

Vision Hema[®] Bone Marrow

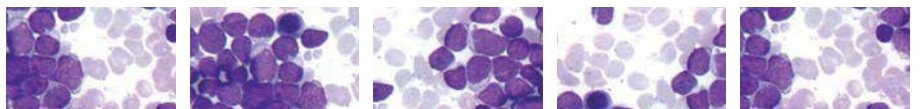
Morphology of bone marrow cells

Count and study of red bone marrow cells

Colour indication of bone marrow cell type

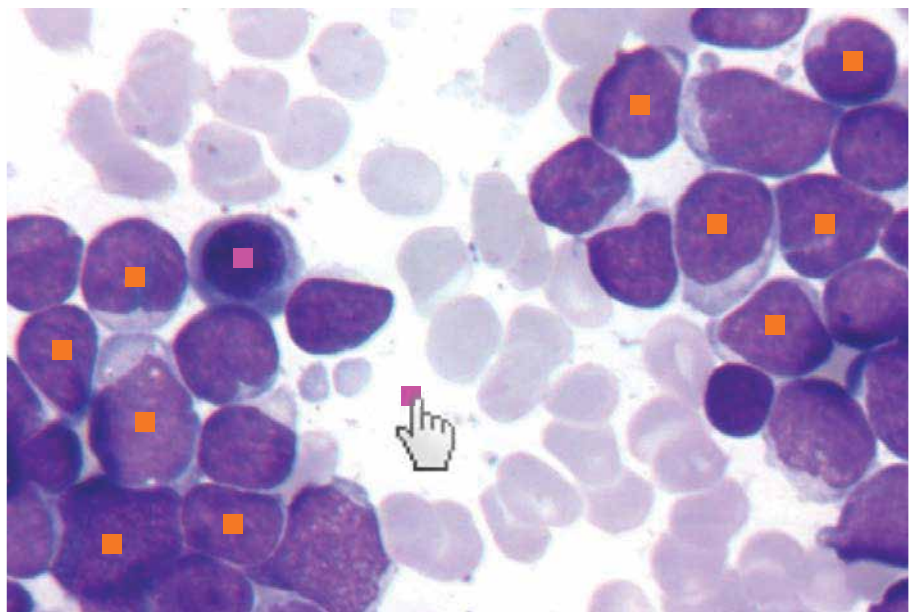
-  Reticular cells
-  Undifferentiated blasts
-  Myeloblasts
-  Neutrophils
-  Eosinophils
-  Basophils
-  Lymphocytes
-  Monocytes
-  Plasma cells
-  Erythroid cells
-  Leukoerythroblastic ratio

1 Automatic scanning of a virtual sample and creation of gallery of analysed areas



2 Count and classification of cells and elements

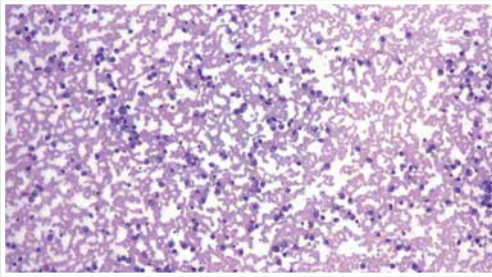
Use "Shortcut" keys when counting elements to save time spent on analysis.



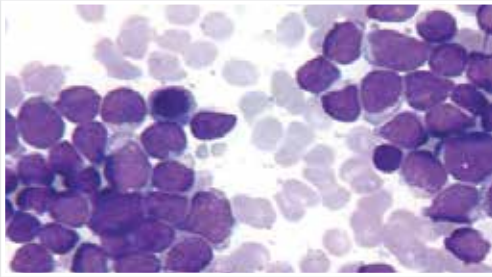
3

Preview of the whole sample with 100x magnification as well as a detailed study with 1000x magnification

100x



1000x



4

Add text comments to bone marrow digital samples

5

Marks on areas with pathology



6

All data are saved automatically, excluding any possibility of losing analysis results

7

Continuous professional development of lab technicians

8

Benefit from knowledge and experience of your colleagues

Bone marrow examination

Bone marrow examination is performed in two stages, a visual assessment of the smear and a differential bone marrow count.

The system provides convenient tools for both stages of bone marrow examination.

Patient

ID:

Name:

Family name:

Analysis

ID:

Sample date:

Analysis date:

Validation date:

Category:

Analysis name:

Analysis

Cellularity

Morphological subtype

Blast morphology

Granulocytic lineage

Neutrophil maturation

Other leucocytes lineage morphology

Erythroid lineage

Erythroid lineage morphology

Type of erithropoiesis

Hemoglobinization of erythrocytes

Megakaryocyte count

Megakaryocyte morphology

Malignant cells

Result interpretation

Notes

Diagnoses

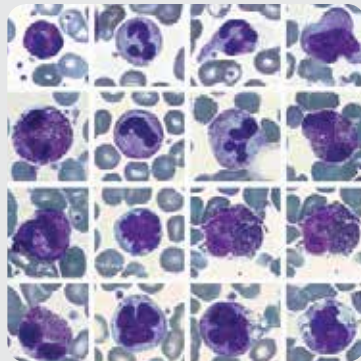
Diagnosis	Diagnosed	Removed
<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

Set diagnoses

Vision Hema[®]

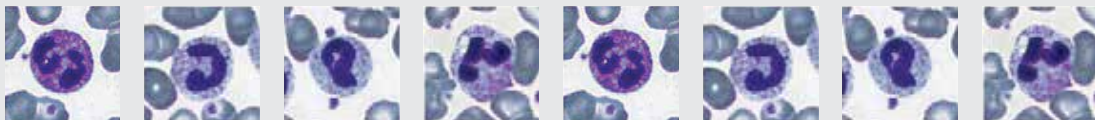
Hematology imaging analyzers

Blood cell identification and pre-classification system.
Its aim is to automate and simplify a complex procedure
of blood smear analysis



Efficient and professional solution for the hematology laboratory!

- Automatic scanning, identification and pre-classification
- Validation of WBC, RBC and platelets
- Analysis and interpretation of results
- Report generation
- Database for archive keeping
- Continuous professional development of lab technicians
- Benefit from knowledge and experience of your colleagues



* Product images are shown for reference only and final product may differ

