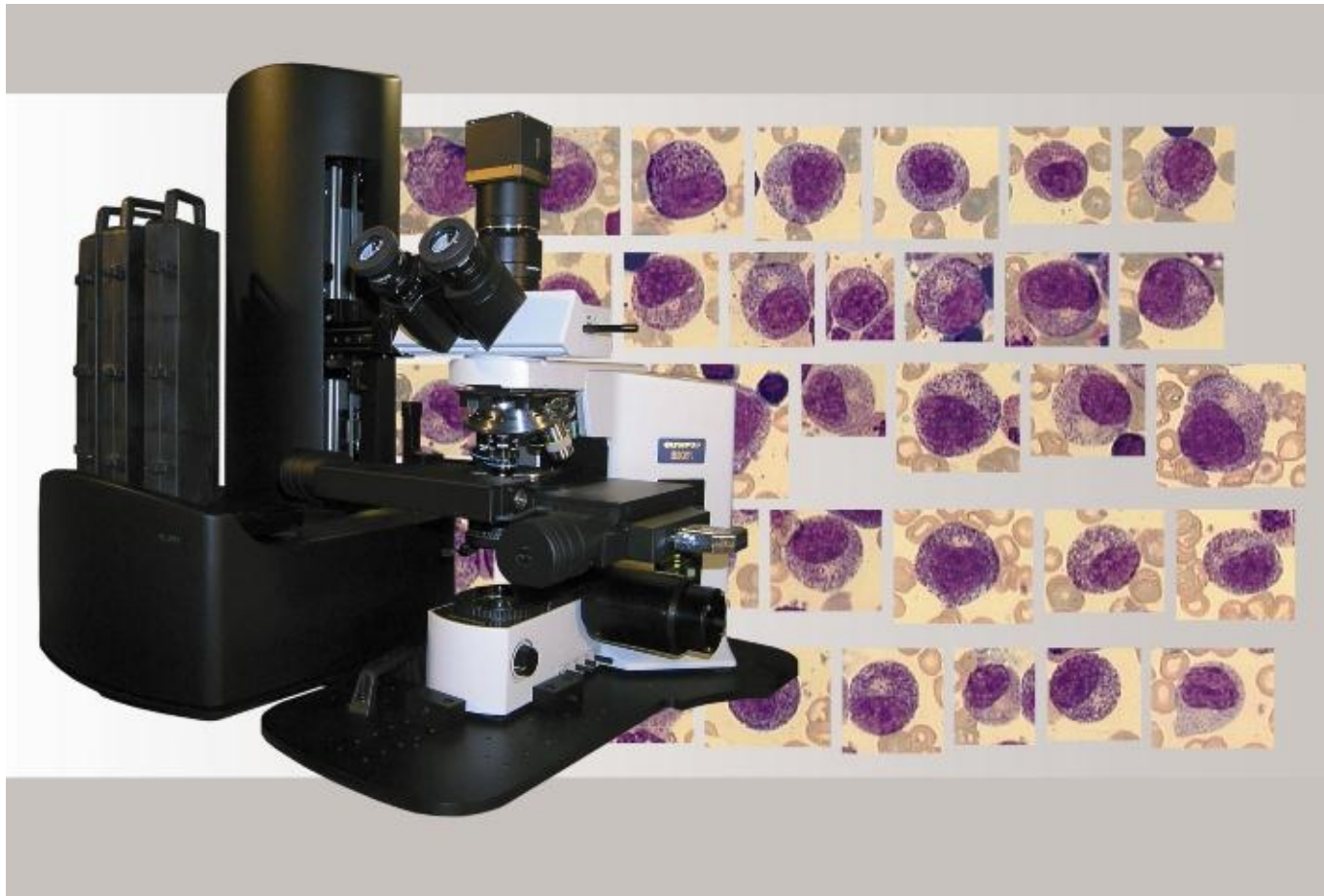


# Robotic microscope MECOS-C2: A new benchmark for traditional tests and routine practice of advanced analyses



Robotic microscope MECOS-C2 implements quality standard in one of the most important diagnostically and methodologically the most backward areas of laboratory analysis – in analyses of complex cell morphology.

Morphology of cells because of their volatility and diversity is described in the textbooks in fuzzy qualitative terms. The only implemented method of analysis of morphologically complex objects, until recently, was time-consuming and subjective visual microscopy. But visual microscopy is not able to guarantee the necessary accuracy:

- High complexity and poor ergonomics don't allow to collect representative sample of cells, small sample reduces reliability of diagnosis;
- analysis quality control is difficult and restricted;
- staff training is difficult because of low concentration and diversity of atypical cells;
- chronic shortage of qualified personnel reduces analyses exactness.

Important investigation area exists, inaccessible to any automatic analyzers of flow type, either manual microscopy: detection and identification of atypical cells and atypical morphology in cases of their low concentration.

In the current decade, thanks to new innovative technologies, robotic microscopy is able to help in solution of the problem of exact analysis of complex morphological images.

**Robotic microscope MECOS-C2 makes better then a doctor:**

- specimen screening of different types and volumes;
- given cell types detection and sample gathering;
- cell sample viewing for a doctor visual sorting;
  - cell quantitative analyses;
  - specimen quality control;
    - database forming;
    - specimen loading.

**A doctor makes better then MECOS-C2:**

- evaluation of atypical morphology;
- atypical cells sorting.

**Robotic microscope and a doctor help each other:**

MECOS-C2 makes specimen screening, cell sample gathering and cell type presorting; a doctor verifies and supplements robotic microscope analysis results on computer screen.



# MECOS-C2 for specimen tests:

- Comfortable workplace without manual microscopy;
- Labor productivity increase;
- Standard specimen screening, presorting, atypical cells gallery forming;
- Advanced large volume screening for atypical cells detection and cell population morphology measurements;
- Full quality control;
- Virtual slides production;
- Integrated process of automation, quality control and staff teaching;
- Automated adaptation to specimen of different type preparation and different pathologies;
- Up to 200 glasses load;
- Up to 40 specimen per hour output;
- Telemedicine and cloud analyses tools;
- Variety of complete sets with different productivity and automation level.

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