



EXTENDED BLOOD CELL DETECTION

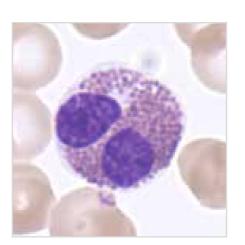
DNN-BASED OBJECT DETECTION

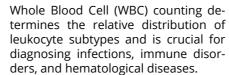
DNN PRE-CLASSIFICATION OF WBC

OBJECTS GALLERY FOR REVIEW

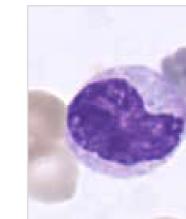
ONE-CLICK OBJECT RELOCATION **INTERACTIVE GRAPHS AND TABLES**





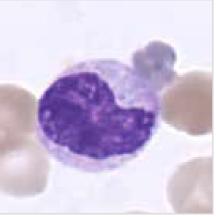


While flow cytometry enables automated analysis, it lacks sensitivity to subtle morphological features. Manual microscopy, though labor-intensive and prone to inter-observer variability, remains the gold standard for detecting fine structural changes in cell morphology.



The Customization Package for Extended Blood Cell Detection enables you to use DNN-powered workflows for automated whole blood cell counting with your Metafer installation. The workflows integrate DNNs trained on expert-annotated data and are ready for implementation and validation in your lab.

Users can quickly confirm or adjust cell classification proposals with a single keystroke, with added convenience from the optional RapidScore keyboard that displays all available



cell classes directly on the keys. Any detected object can be instantly relocated under the microscope with one click—no need to manually reposition the sample.

Review outcomes are clearly presented in tables and graphs, which can be exported or compiled into customized reports. DNNs, data, and images are stored on your local servers. The entire system operates locally, without requiring any connection to external resources.





AMERICAS

USA, Medford info@metasystems.org

Argentina, Buenos Aires info@metasystems-latam.com

EUROPE

Germany, Altlussheim info@metasystems-international.com

Italy, Milan info@metasystems-italy.com China, Hong Kong info@metasystems-asia.com

China, Taizhou info@metasystems-china.com

India, Bangalore info@metasystems-india.com

MetaSystems software provides, among other functions, features to assist users with image processing. These include, but are not limited to, the use of machine and deep learning algorithms for pattern recognition. The output generated in this process should be regarded as preliminary suggestions and, in any case, mandatorily requires review and assessment by trained experts.

MetaSystems offers **Customization Packages** for application workflows that have been successfully implemented for customer labs using standard Metafer platform functionality. It is expected that they can be implemented for other customer labs using similar workflows and slide preparation procedures. If a Customization Package is purchased, MetaSystems product specialists will - based on their experience from other similar application cases - support the customer lab in adapting the Metafer software configuration to their needs. The performance of the solution will depend on the quality of the customer slides and the expertise of the users, MetaSystems cannot specify or guarantee any performance parameters. The validation of the solution for clinical use is the sole responsibility of the customer lab.

CONTACT US

OR YOUR LOCAL **MetaSystems**REPRESENTATIVE



metasystems-international.com

MetaSystems Hard & Software GmbH Robert-Bosch-Str. 6 68804 Altlussheim | Germany

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