The Count Nuclei Application Module for MetaXpress® Software from Molecular Devices is designed to automate accurate counting of nuclei of most types of cells.

The module accurately counts nuclei even when the background fluorescence in one imaged area is greater than the nuclei fluorescence in another area, providing superior background compensation compared to simple thresholding.

The module utilizes Adaptive Background Correction (ABC) which adapts the detection algorithm to the local intensity ranges between and within cells to provide the most robust segmentation available in an image-based screening system.

ABC enables probe detection even with highly variable background fluorescence within a single image.

This simple yet powerful module has a user-friendly interface to minimize set-up efforts, while providing the flexibility to customize the settings to the type of cells used in a specific experiment. Analysis set-up can be done in two easy steps, and the settings can be applied to an entire plate with one click.
COUNT NUCLEI APPLICATION MODULE

1. Select minimum and maximum nuclear size
2. Set the sample intensity level above the local background

More complex automated analysis can be achieved by running this application module with other built-in analysis functions.

INTERACTIVE DATA DISPLAY
Once the analysis is run, the Cellular Results table allows you to interactively view individual cells' data. Clicking a cell in the image highlights the data for the selected cell in the table.

CUSTOMIZATION THROUGH MACROS
MetaXpress Software is seamlessly integrated with the power and flexibility of MetaMorph® Software and its sophisticated and powerful macros, called journals, that record and perform a series of tasks without the need for a programming language.

VALIDATED DATA
Development of application modules includes research and testing with a library of in-house and third-party data sets.

POWERFUL DATA EXPORT CAPABILITIES
All measurements can be directly exported to ORACLE®, Microsoft® SQL™, text file or Microsoft® Excel®.

MULTI-PARAMETER ANALYSIS
The module generates a number of field or cell-by-cell parameters users can selectively report, including:

→ Total nuclei
→ Total and mean area
→ Integrated and average intensity

ORDERING INFORMATION
Count Nuclei Application Module for MetaXpress Software
Part Number: 9500-0017

FOR MORE INFORMATION
Check our web site
www.moleculardevices.com/mx

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www.moleculardevices.com

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Specifications subject to change without notice.

Images acquired with the Discovery-1™ System from Molecular Devices.