CLINICAL APPLICATION

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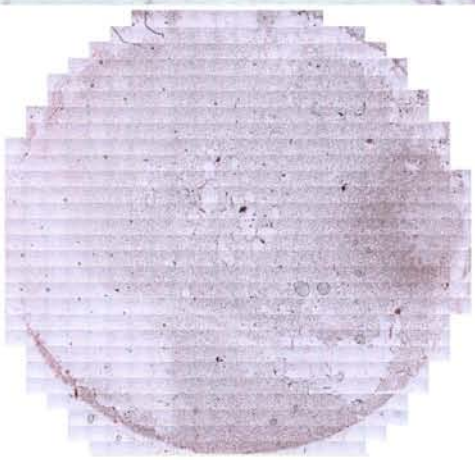
APPLIED IMAGING

Cellular Rare Event Detection Analysis

FDA 510(k) cleared



ariol®

Automated scanning, detection and characterization of anti-cytokeratin labeled cells in bone marrow as an aid to the pathologist in the detection of epithelial cells

Sophisticated Rare Event Analysis

In addition to quickly finding occult tumor cells, Ariol offers additional power to improve analysis:

Rapid and automatic detection of rare event cells

Increased accuracy compared to manual analysis[1]

Set size and shape thresholds to automatically gate cells either in or out

Sort the gallery of detected events by both cell size and shape to quickly confirm positive tumor cells

confidence in numbers 9657

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Example Workflow

System retrieves case information via barcode, loads slide onto stage, pre-scans at 1.25x to locate tissue, and then auto scans at 10x with real-time analysis to identify candidate objects

User reviews, on the monitor, the candidate objects found to confirm or reject them as micrometastases

System sums the number and total area of micrometastases confirmed
System generates report

Time saving steps when system runs unattended

User interactive steps

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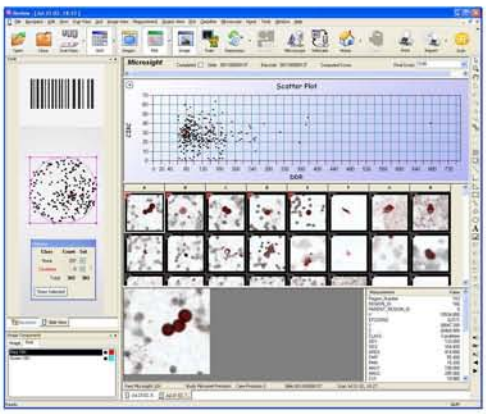
Automation for better **detection**, with **consistent** scoring, and improved **throughput**

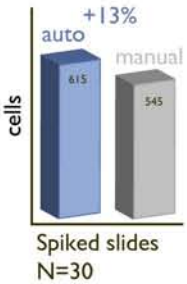


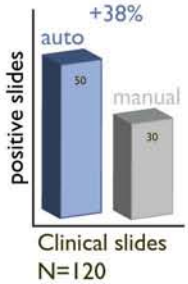
High resolution images are evaluated in the Review gallery. The system precisely relocates to any object with a single click for viewing through the microscope oculars. The gallery, slide map and plotting tools are all interactively linked for easy sorting and full analysis.

Even with the SL-50 slide loader you always have the use of a full working microscope.

Analysis of manual versus automated detection methods demonstrated the technology's enhanced accuracy over manual methods. In spiked samples Ariol detected 13% more cells and in actual clinical samples the gain in detection rose to 38% .[1]

1. Borgen E. et al. *Cytometry* **46**(4):215-221 (2001)





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