RESEARCH APPLICATION

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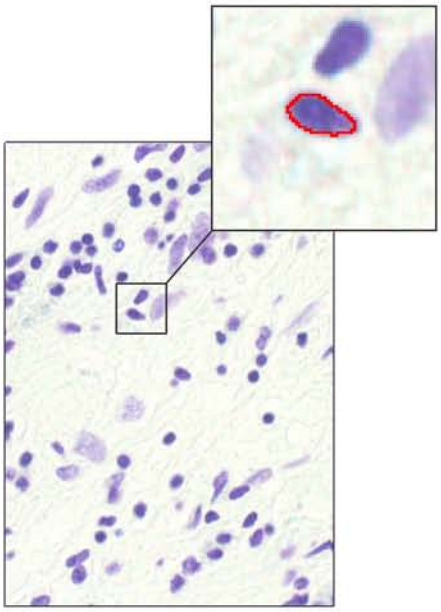
APPLIED IMAGING

DNA Ploidy Analysis



ariol®

Automated scanning, segmentation, and quantification of the DNA content of tumor cells stained by Feulgen reaction

Powerful DNA Ploidy Analysis

Beyond accurately measuring DNA Ploidy, Ariol provides additional controls to make analysis easier:

- Easy DNA quantification at 40X magnification
- Fast and automatic segmentation of nuclear boundaries
- Easy selection of tumor and control areas
- Split and join cells manually to enhance accuracy
- Sort DNA data by cell size and shape parameters
- Set thresholds to gate cells in and out by size and shape

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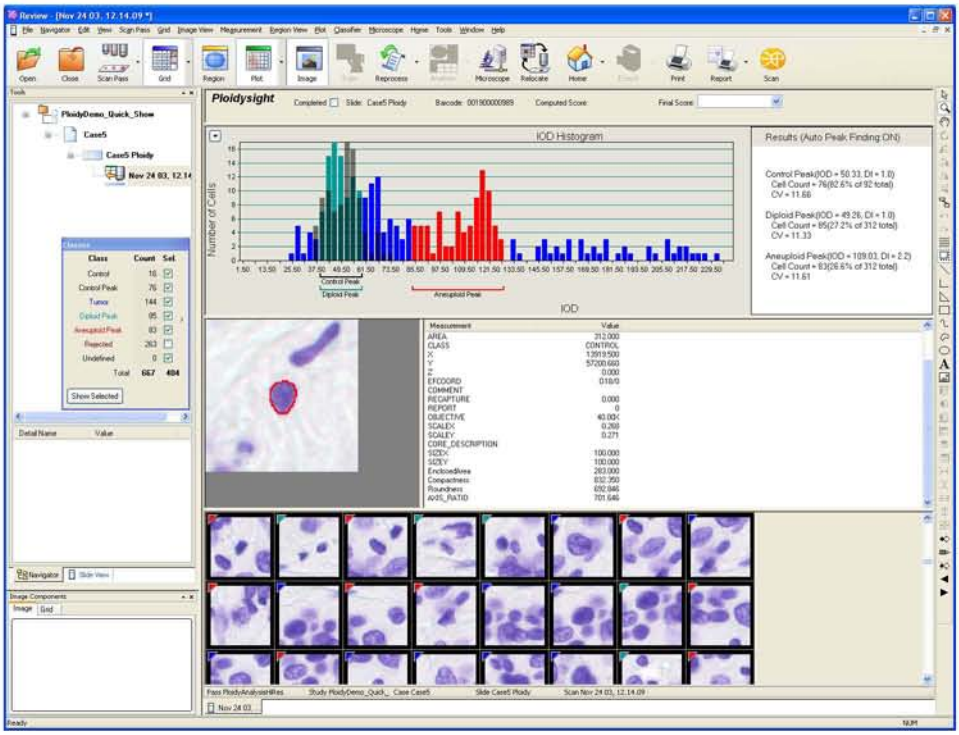

A real-time histogram shows the IOD of control cells overlayed with test cells. Interactive graphing tools can be used for viewing and selecting cells.

ariol®

Fast and **easy** to use. The **essential** partner in DNA ploidy analysis.

The robotic arm of the SL-50 slide loader provides true automation

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 5x

User selects the region of interest to analyze

System auto-scans selected area at 40x

User identifies areas for control tissue and tumor tissue

System auto-segments nuclear boundaries within the selection areas, calculates the respective DNA indexes, and plots the case histogram

User reviews the data to accept the nuclear segmentation as is or fine tunes it by splitting, joining, or redefining selective nuclear boundaries

System automatically recalculates the DNA index and adjusts the histogram
System generates report

Time saving steps when system runs unattended

User interactive steps

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