RESEARCH APPLICATION

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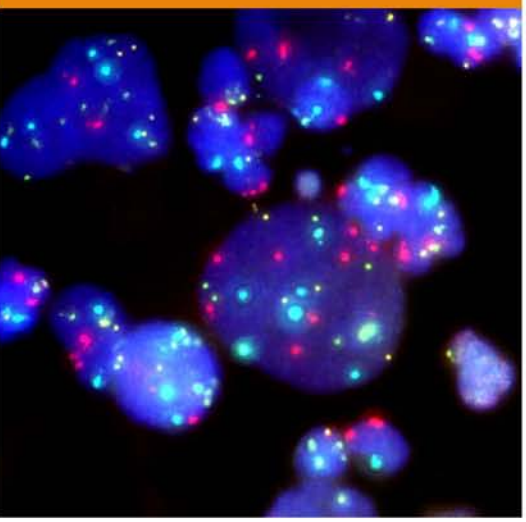
APPLIED IMAGING

Cellular FISH Analysis



ariol®

Automated scanning and spot counting of fluorescent in-situ hybridization signals in interphase cells

Highly Flexible FISH Analysis

Beyond accurate spot counting, Ariol simplifies both review and analysis with sophisticated tools:

Fast spot counting and FISH analysis at 40x, 60x, or 100x magnification

Reproducible scoring of complex, multi-fluorochrome assays

Efficiently work on screen instead of down the scope to achieve more ergonomic FISH analysis while reducing eyestrain and back fatigue

Integrated Z-Stack™ control for multi-plane imaging and superior spot detection through interphase cells

Sort captured cells based on size and shape parameters and display them in a gallery view

User trainable classifiers for DAPI intensity and fluorochrome color, size, shape, and brightness allow customization of the analysis to match manual scoring

User configurable filter sets accommodate virtually any probe assay

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Cellular FISH Analysis

Example Workflow

System retrieves case information via barcode, loads slide onto stage, auto scans at 40x and performs automatic spot counting analysis

User reviews and verifies the cell classification

System generates report

Time saving steps when system runs unattended

User interactive steps

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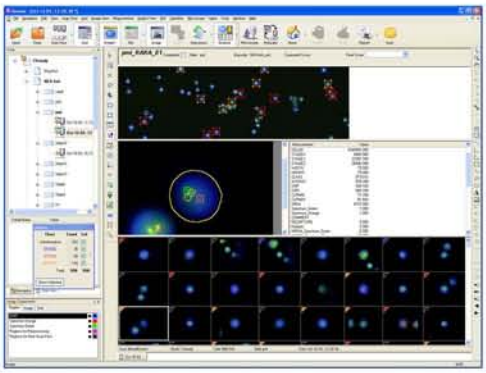
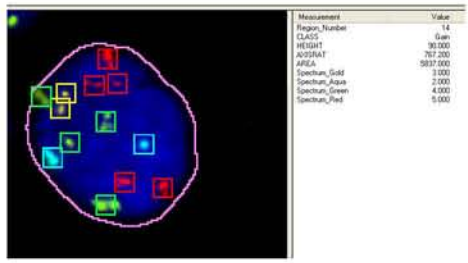
Automation for **fast, consistent** and **accurate** scoring of cellular FISH assays

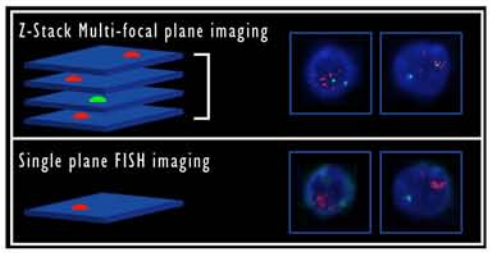


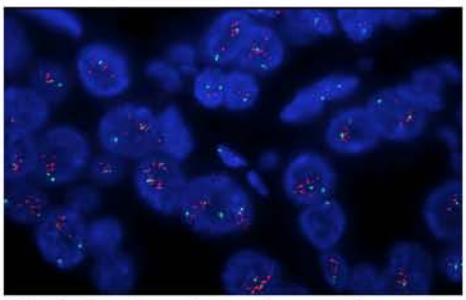
Review cells from the image gallery. Signal counts, cell measurements and location of the cell on the slide can be viewed simultaneously.



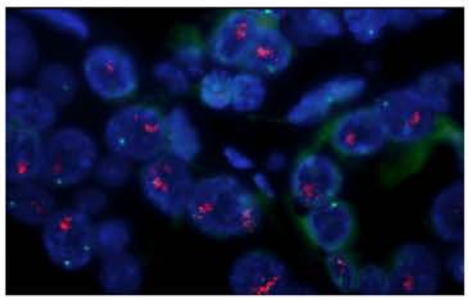
Masking tools make it easy to locate signals for review of the automatic scoring.

Z-Stack capture of multiple planes optimizes the location and scoring of signals. The number and depth of planes are fully customizable with easy one-click loading of settings.





With Z-Stack signals are clear and focused on every plane.



Without Z-Stack, probe signals are unfocused and undifferentiated

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