

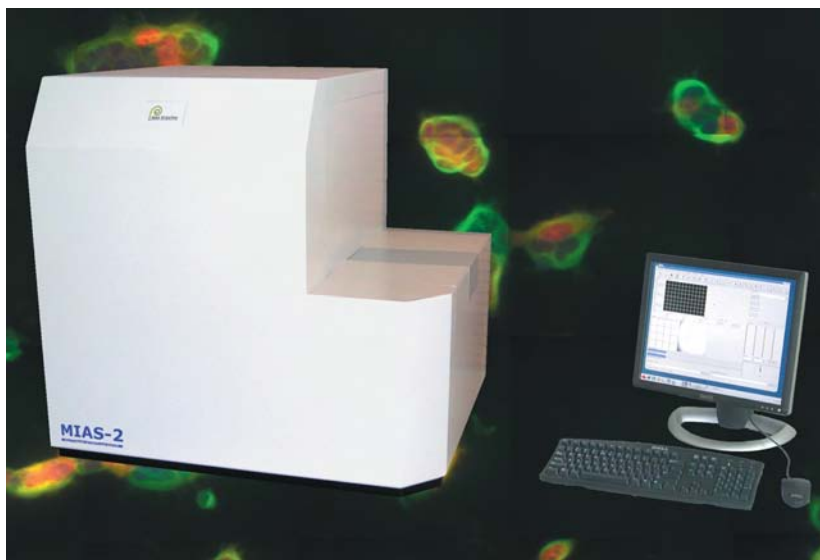


MAIA SCIENTIFIC
bridging vision and discovery

a Harvard Bioscience Company

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MIAS-2™ Multimode Microscopy Reader



The optimum blend of:

- SENSITIVITY
- RESOLUTION
- FLEXIBILITY
- SPEED

SENSITIVITY

- Intensified camera
extreme sensitivity, reduced phototoxicity
- Object-based autofocusing
robust in regular and low light conditions
- Focus on and capture signals invisible to the eye

RESOLUTION

- 1.25x - 63x objectives (high numerical aperture)
- Ultra-precise object positioning below optical resolution (< 0.35 micrometer)

FLEXIBILITY

- Multimode microscopy reading
 - 5 brightfield modes
 - 8 fluorescence channels
- versaTILE technology
seamless capturing of large areas at high resolution
- versaTIME technology
powerful time-lapse and video analysis
- 6-1536 well plates, Petri dishes, tissue sections, arrays
- Cell-based, tissue based & small animal applications

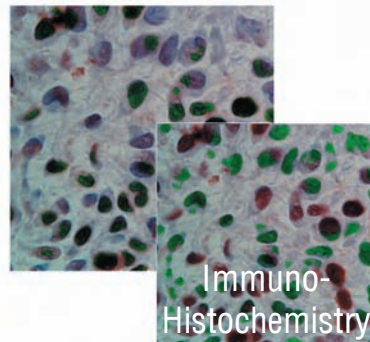
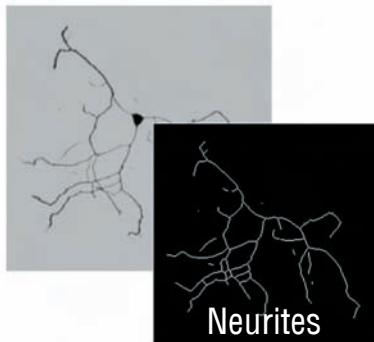
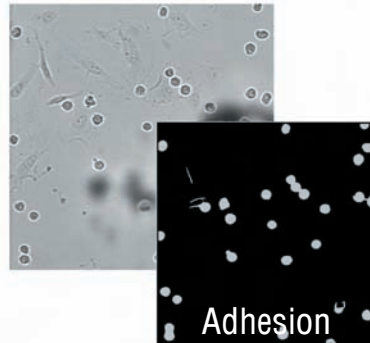
SPEED

- Real time focus and acquisition on weak signals
- Image acquisition and analysis in parallel
- 'Plate stack to database-ready result' level automation
- From 'hands-on operation' to a 300-plate screening campaign over a 'mouse click'



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MIAS-2™ Brightfield Mode



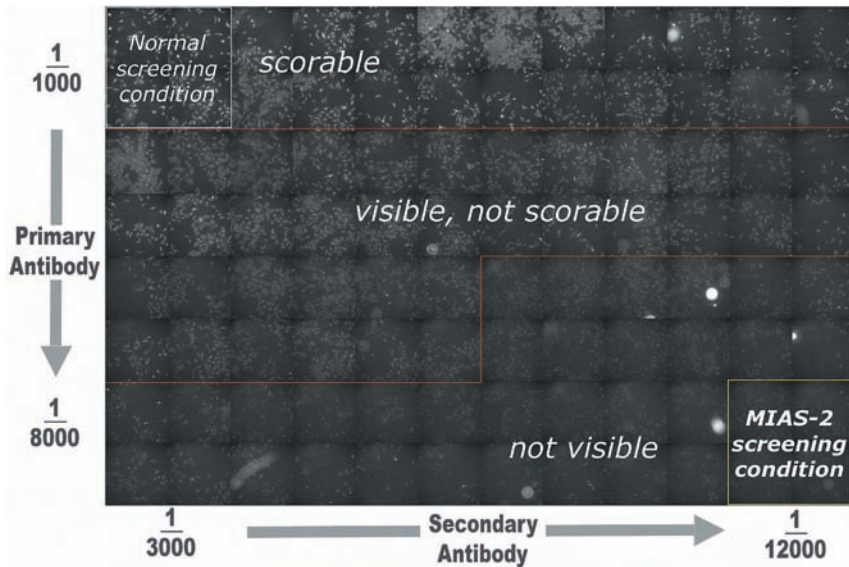
Unstained living cells

- Confluence
- Cell Counting
- Colony Size
- Clonality

Stained tissue sections

And more...

MIAS-2™ Low Light Mode



See beyond human vision
Save on your assay

Specialty Solutions for Drug Discovery R&D

The MIAS-2 reader allows you to focus on results

Mission

We deliver platform technology for high information content screening. Our instruments & software will create unprecedented sensitivity, flexibility and speed across the drug discovery chain. Our applications will refine your assays and will save on assay cost. We will integrate instruments, assays and applications into solutions that seamlessly fit the needs of your R&D pipeline.

Our expertise includes:

- Cells, tissues & tissue sections
- Small animal organisms
- Targets & bead assays
- Target identification & validation
- Assay development & HTS
- ADMET, biomarker & clinical

MIAS-2™ microscopy reader

A new generation reader with unequalled sensitivity, flexibility & speed:

- Ultra-sensitive intensified camera
- Wide resolution range (1x – 63 x)
- 5 Brightfield modes
- 8 Fluorescence modes
- Fast low light reading
 - Assays for low abundant targets
 - Physiological target expression levels
 - Low to no photo toxicity or bleaching
- Rapid assay optimization
- Reduced assay cost and assay time
- Robotization (90, 210 or 300 plates)

eaZYXTM imaging software

Designed for automated capture and analysis of brightfield images and extreme low-light fluorescence objects:

- Object-based, low light auto-focus
- Background-invariant object detection
- Novel image segmentation algorithms
- Fast application development
- Powerful on-image proofing tools
- Open software: image import & export
- Full automation from “Plate stack to database-ready result”



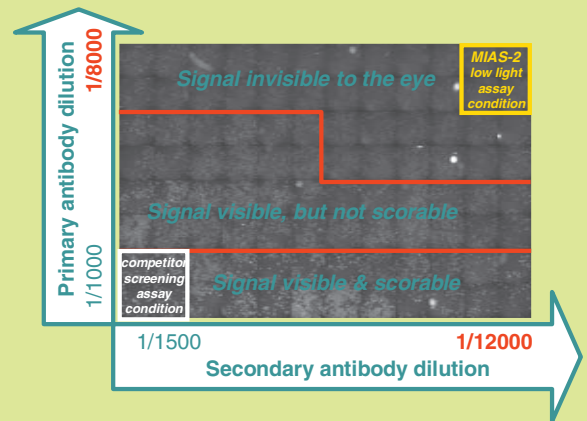
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Examples of applications ■ ■ ■

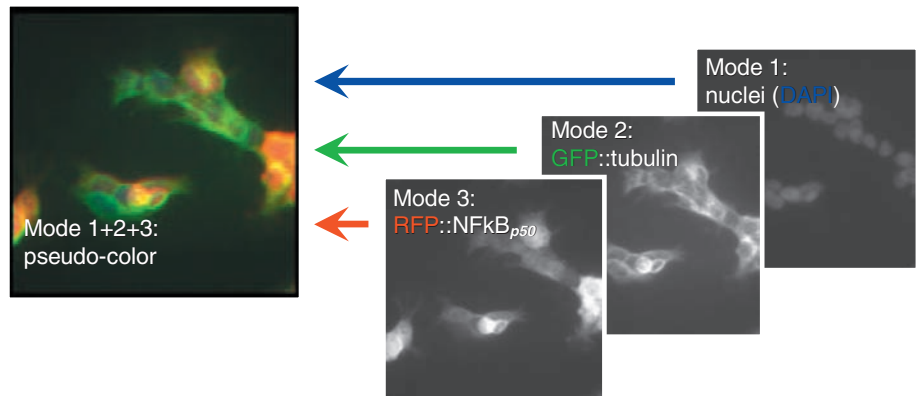


Some application examples...

Low light reading in MIAS-2 save on assay cost & assay time

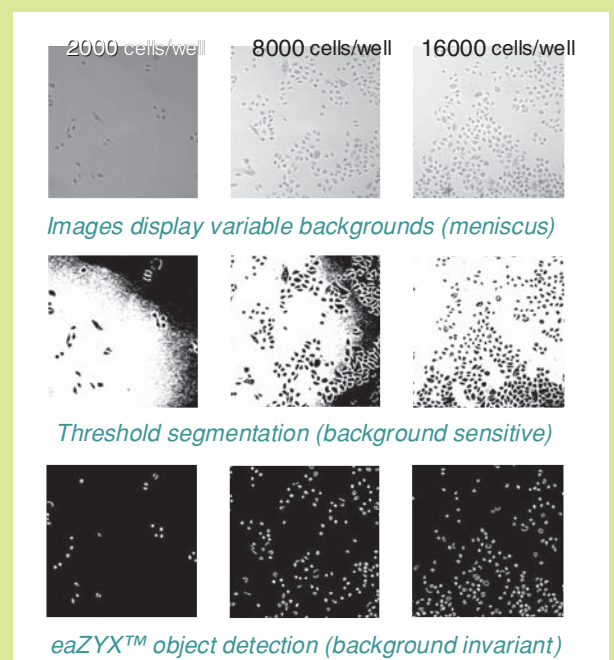
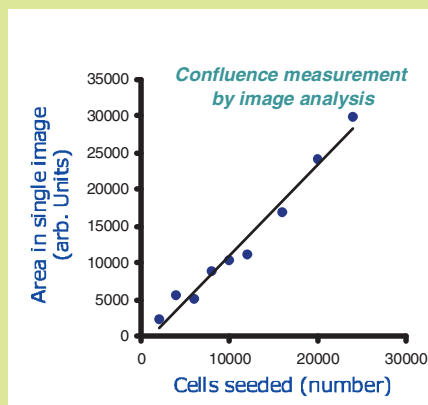
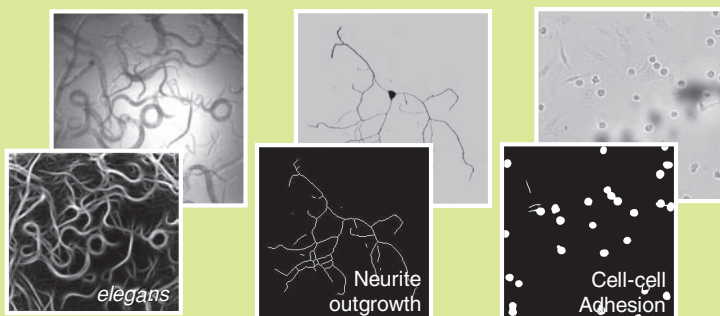


Multimode fluorescent reading with MIAS-2 by nanometer precision, pixel-matched revisiting of wells

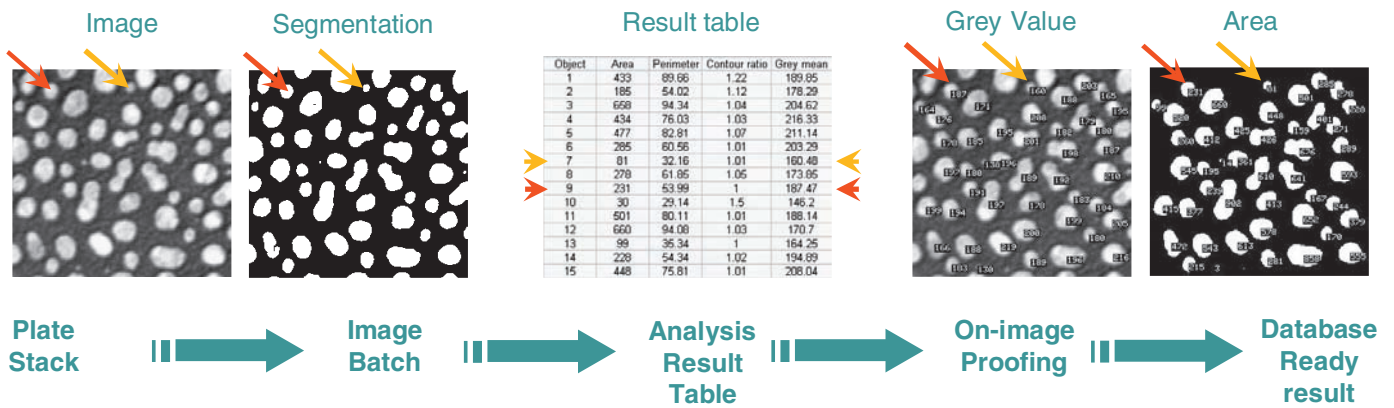


Automation of cell culture, live model organism & cell-based screening

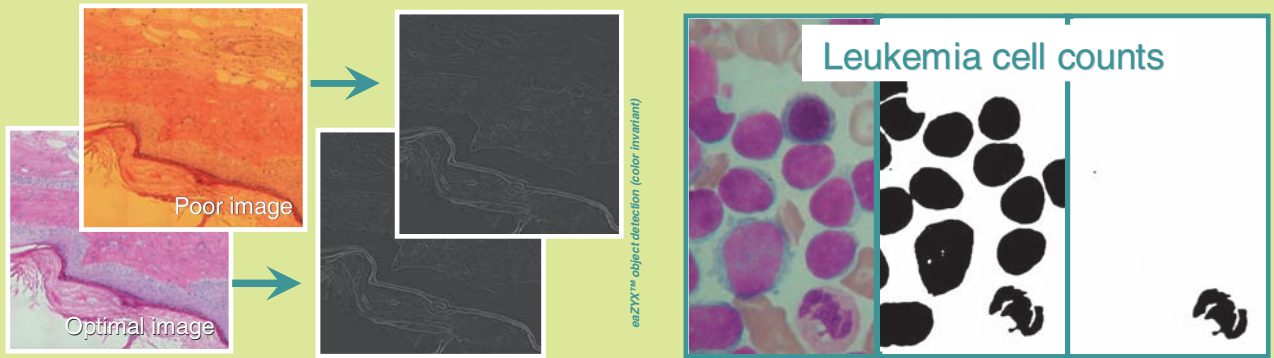
- non-invasive unlabeled background-insensitive applications with MIAS-2 & eaZYX



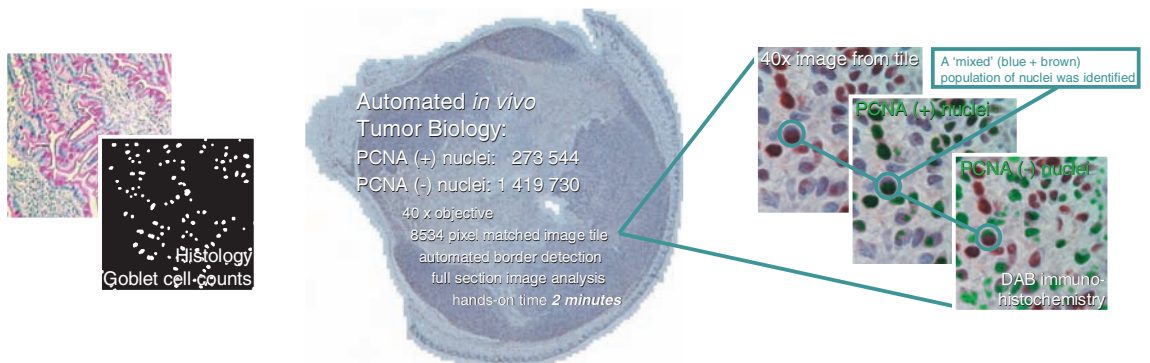
'On-image' proofing tools 'data to image' over a mouse click



Increase statistical power of histopathology by controlling center variability with eaZYX software



Automation of histology & histopathology color, shape, texture & color transition analysis with MIAS-2 & eaZYX



Small animal models for pharmacology, ADMET & LD50 assessment

- affordable alternatives for rodent models to match chemistry, ADMET & toxicology

