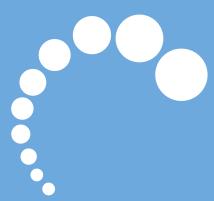


## Rainbow

**HyperSpectral Imaging and Analysis** 







### **Molecular and Cellular Image Insight**

Advanced hyperspectral imaging and analysis solution for Brightfield and Fluorescence samples



Rainbow reveals the spectrum of every pixel in the image, providing advanced analysis tools to extract quantitative spectral and morphological information on cell biology.



#### **Differentiate**

Uncover chemically similar areas hidden to the eye, create color-coded maps and compare the chemical makeup of components



#### **Separate**

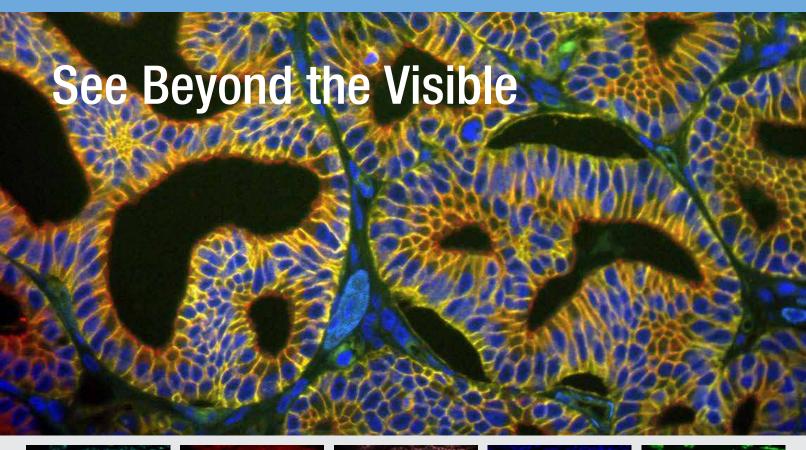
Separate spectral components to view them as individual layers.

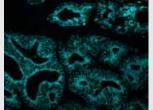
Detect and classify objects, based on quantitative morphological and spectral content

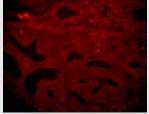


### Quantify

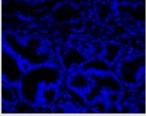
Un-mix spectral components and remove background and auto-fluorescence for accurate, quantitative expression at every pixel

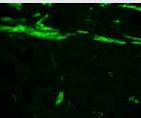












- ✓ Wide spectral range
- ✓ High throughput
- ✓ Non-polarized light
- ✓ Adjustable spectral resolution
- ✓ High spectral resolution
- ✓ Fully Automated

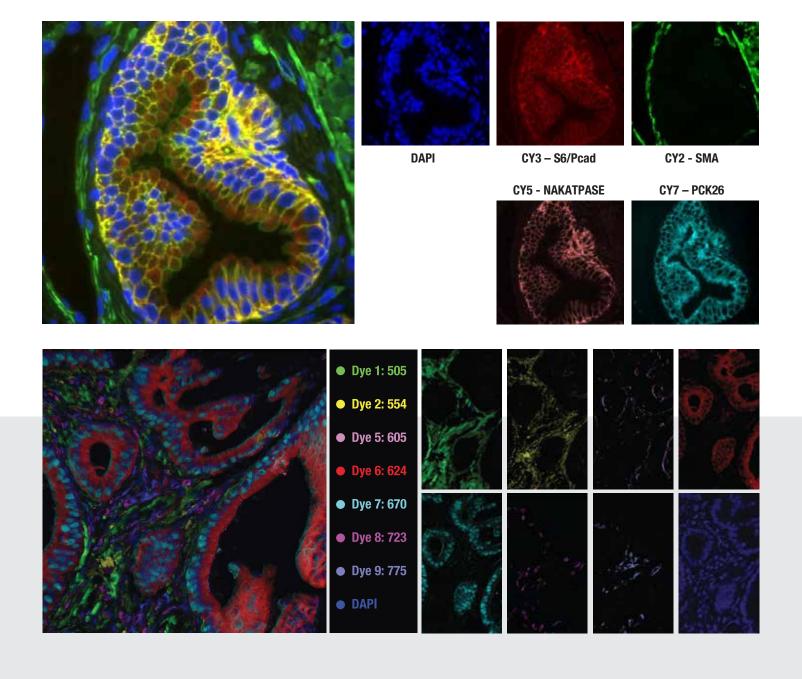
# **Identify True Physical and Component Characteristics**

#### Investigate, Uncover, Classify

Spectral range twice as wide as the visual range, revealing hidden information

Un-mixing of multiple colors, resolving co-localized image components

Removal of background signals in Brightfield and auto-fluorescence and enhancement of cluttered signals

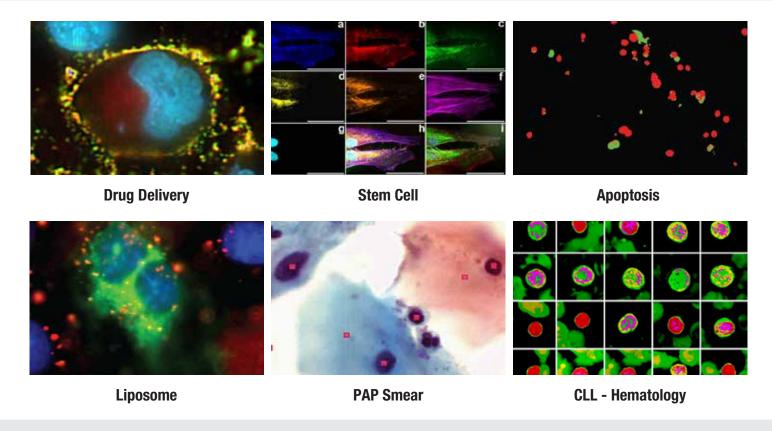


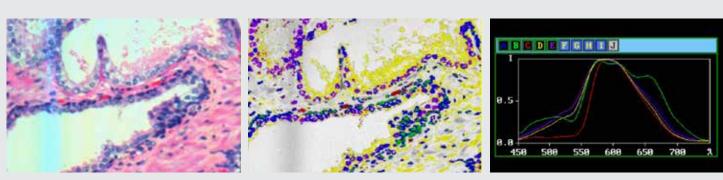
## Unveil a World of Research for a Wide Range of Applications

- Cell Biology
- Multicolor IHC
- Immunology

- Stem Cells
- Pharmaceutical
- Cell Identification

- Bacteriology
- Infectious Disease
- Pathology

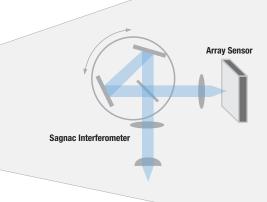


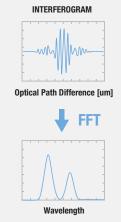


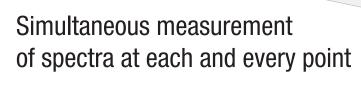
**Objective Cell Identification - Prostate P.I.N.** 

# **Interferometer-Based Electro-Optical Hyperspectral Solution**

A cutting edge dual-mode optical system, allowing both interferometer-based image capture for 3D hyperspectral imaging and direct view mode for high resolution 2D image capture.

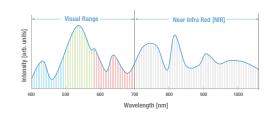






## **See Beyond the Visible**

All information in a single scan



Upright and inverted microscopes

Illumination Models

Brightfield, Fluorescence
and Reflectance

Spectral Range 400-1000 nm

Data per Pixel

16 bit

User Defined Spectral
Resolution [FWHM]
3-40 nm

**Dual Mode** 

- Hyperspectral capture
- Monochromatic imaging

**Spatial Resolution** 

1.3MP (pixel size depends on microscope objective lens)

#### **Data Management and Connectivity**

Modern Paperless Workflow

## Central Portal and Database for Clinical and Research Use



Case Data Management (CDM)

- Efficient
- Comprehensive
- Eliminates human error

#### GenASIs AnyWhere™ for Remote Access

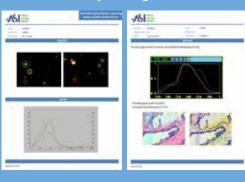
Lab Connectivity Anytime, Anywhere

Review and analyze from any location via a secured network

#### Remote access, review and analysis



#### **Advanced Reporting**



#### 1D/2D Barcode Reader



#### **LIMS Connectivity**

- ✓ Performance
- Security
- Data Integrity

**HIPAA Compliant** 



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