OptraScan®

Global Leader in Affordable Digital Pathology

- High Resolution
- Walk-Away Technology
- Compact Size
- Patented Cloud Enablement
- Multi-Site Collaboration
- Unmatched Pricing Solution

OptraSCAN is an end-to-end digital pathology solution provider; focused on delivering fully integrated, cloud-based affordable desktop scanning systems and solutions that will maximize your return on investment and improve the performance of your pathology services.

OptraSCAN's digital pathology system comprises of small-footprint, low and high throughput WSI scanners that are well-equipped for brightfield, fluorescence, frozen sections/live view mode, confocal, integrated software and automated image analysis solutions. The scanners serve as the perfect tool for transition from conventional microscopy to digital pathology. We provide effective acquisition of whole slide images, viewing, storing, real time sharing & reporting via subscription or outright purchase model.

OptraSCAN India Pvt. Ltd.
020-66540900

Qubix SEZ, Hinjewadi Phase I
020-66540900

info@optrascan.com
www.optrascan.com

OptraSCAN Inc.,CA USA
+1 (408) 524-5300

info@optrascan.com
www.optrascan.com

@OptraSCAN

* All OptraSCAN systems are for research use only in North America

OptraScan®

An ISO 13485 certified company
OptraSCAN systems are CE mark for IVD use

OS-15 : Brightfield & Frozen Section Scanner

- Cloud-enabled 15-slide brightfield & frozen section scanning
- Desktop scanning
- 20x or 40x magnification – brightfield
- Ability to scan or live view FFPE or frozen samples
- 20x or 40x live view – frozen section
- Small footprint

OS-120 : Brightfield Scanner

- Cloud-enabled 120-slide brightfield
- Desktop scanning
- 20x or 40x magnification
- Able to batch run indefinitely w/8-cartridge carousel

OS-FL : Multiplex Fluorescence Scanner

- Cloud-based 15 slides fluorescence scanning
- 20x or 40x magnification
- 6 filter cubes for efficient multiplex imaging
- 5 slots for FL and 1 for mono brightfield

OS-FLi : Fluorescence & Brightfield Scanner

- Cloud-based 15 slides fluorescence scanning
- 20x or 40x magnification
- 14 slots for FL and 1 for brightfield
- 15 filter cubes for efficient multiplex imaging and can produce up to 30 combinations of excitation, emission and dichroic

OS-SiA : World's First AI-enabled Scanner

- Scans & analyses simultaneously
- Cloud-enabled 15 or 120 slide brightfield
- Desktop scanning
- 20x or 40x magnification
- Deep learning computational module

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100 Century Center Court
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IMAGEPath®

Web-based Image Management and Viewing

- Image sharing, collaboration and storage security
- Pan, zoom, annotate, generate reports
- User authentication and "role-enabled" access
- Image analysis plug-in available
- Audit trail functionality

TELEPath™

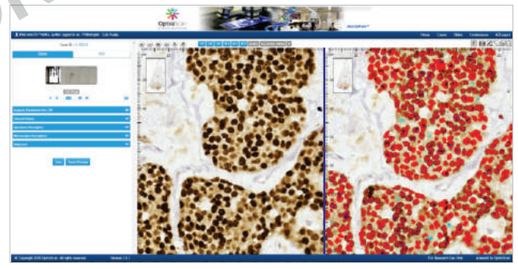
Real-time Digital Conferencing

- Real-time sharing/collaboration
- Interactive chat
- iOS and android based applications

OptraASSAYS™ Image Analysis

AI & ML based Image Analysis Solutions

- Turnkey analysis of ER, PR, Her2neu, Ki67, PD-L1, FISH
- IHC multiplexing assays
- Accurate, rapid & reproducible assessment
- Additional algorithms available with user configuration
- Biomarker quantification using nuclear, membrane & cytoplasmic stains



Nuclear Biomarker Analysis

- Identification of optical density vectors
- Easily tunable training & classifying modules
- Batch processing and single slide analysis
- Computer assisted whole slide & regions of interest assessment for quantification of nuclear algorithm

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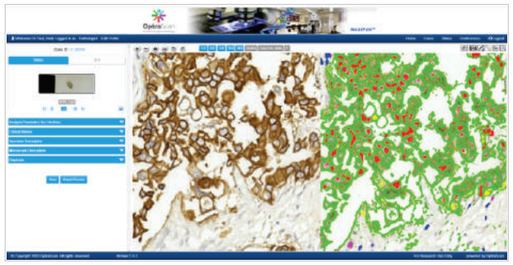
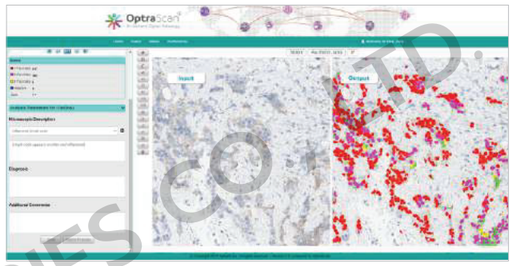
Membrane Biomarker Analysis

- Highly reproducible and accurate score generation
- IHC dual-plex analysis for each biomarker analyzed
- User validation through exposed parameters opened for user interaction
- Stroke detection algorithm for filtering out the residual/background staining



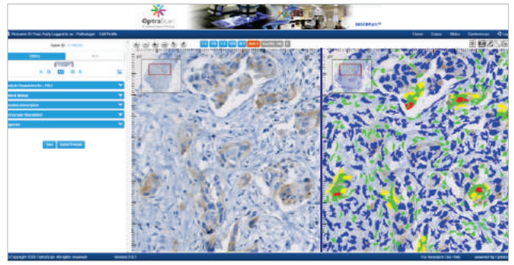
Cytoplasmic Biomarker Analysis

- Algorithm helps distinguish between the staining of two or more sub cellular compartments
- Algorithm evaluates the respective nuclear cytoplasmic localization in order to gain further cellular insights
- Provides accurate and detailed score generation in the form of 3+,2+,1+ and negative cell counts



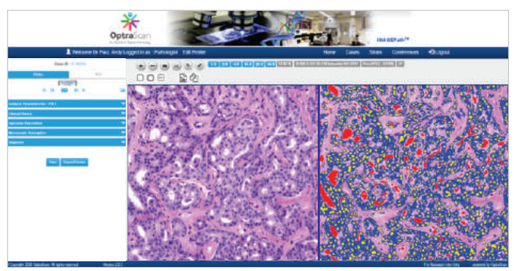
PD-L1 Biomarker Analysis

- Fully automated solution for interpretation of PD-L1 IHC expression
- Computer aided region detection system based for automated evaluation of tumor nest
- Score generation based on the number of PD-L1 positive cells in relation to total tumor and immune cells in a single read



Prostate Cancer Analysis

- End to end, fully automated solution for prostate cancer
- ANN (artificial neural network) based classifier
- ML based histological assessment of architectural patterns



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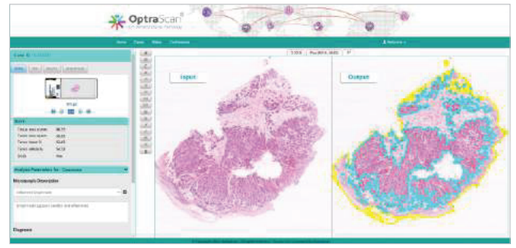
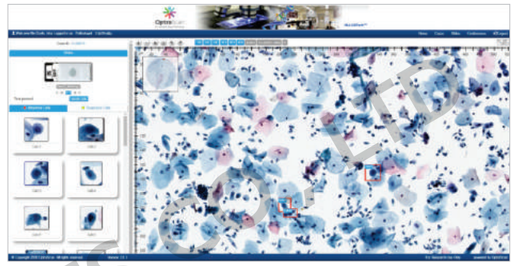
Breast Cancer Analysis

- Evaluation of tumor (invasive carcinoma) area and the tissue area in mm2
- Automated evaluation of invasive cellularity in the tumor area
- Identification of DCIS



Cytology Imaging and Analysis

- Fully automated multi-layer scanning at different focal depths
- Automated computation of sample adequacy for the whole slide cytology image
- Identification of abnormal cells and other entities based on morphological features and AI based classification
- Identification of reactive, endometrial, actinomyces, candida, clue cells, trichomonas vaginalis, and herpes entities
- Identification of entities including blood, inflammation, and lubricant



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Chair – Pathology at
Yale School of Medicine

Dr. Abul Abbas
Chair – Pathology at
University of California, San Francisco

Dr. Manu Sebastian
Associate Professor & Director,The University of
Texas MD Anderson Cancer Center

Dr. Allen Gown
Founder, Medical Director
Phenopath

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