Linking quantitative histopathology data with clinical & molecular real-world data to accelerate precision medicine

Clinical Data

Aster Avatar select clinical data elements updated monthly, with full data refreshes every 6 months, providing unparalleled visibility into treatment patterns and outcomes through 325 data elements

Comprehensive and longitudinal insights into a patient's journey

- » Demographics
- » Medical History
- » Cancer Risk Factors
- » Physical Assessments
- » Laboratory
- » Tumor Markers
- » Diagnostic Imaging
- » Staging
- » Medications
- » Surgeries/Biopsies
- » Radiotherapy
- » Biologics
- » Outcomes

Molecular Data

Aster Avatar molecular data includes

Tumor / Germline Whole Exome Sequencing

~20,000 genes sequenced at 300X & enhanced coverage of oncogenes and selected intronic regions
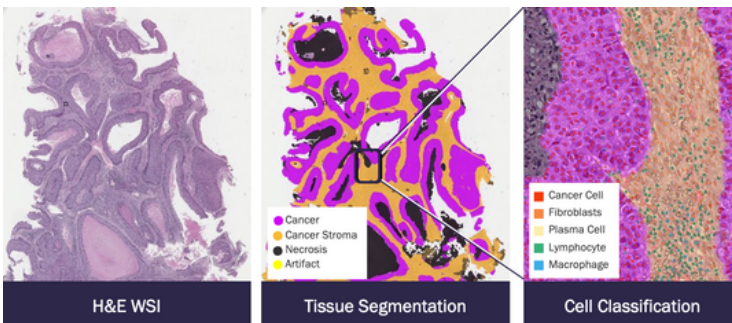
Tumor Whole Transcriptome Sequencing

Whole transcriptome RNA-Seq expression data spanning all known protein-coding genes

AI-Powered Pathology

H&E images linked with AI-powered insights from PathAI's Path**Explore**™ panel of >600 histopathology features

H&E WSI

Tissue Segmentation
- Cancer
- Cancer Stroma
- Necrosis
- Artifact

Cell Classification
- Cancer Cell
- Fibroblasts
- Plasma Cell
- Lymphocyte
- Macrophage

- Total Area of Tumor Tissue
- Total Number of Lymphocytes
- Density of Lymphocytes in Cancer Stroma
- Number of Lymphocytes in Proximity to Cancer Cells
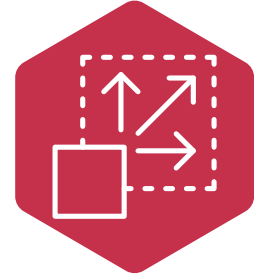- Spatial distribution of Tumor Infiltrating Lymphocytes, **and more**

Identify, improve, and scale histological biomarkers in real-world patient cohorts

Identify novel histological biomarkers & drivers of therapeutic efficacy

Improve quantification of established biomarkers & disease signatures

Scale research & insights across disease areas & drug programs

Available in over 13 cancer indications including...

Lung

Breast

CRC

Melanoma

Gastric

RCC

PDAC

Prostate

DLBCL

Ovarian

Bladder

HNSCC

HCC

Learn more at **www.pathai.com**

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