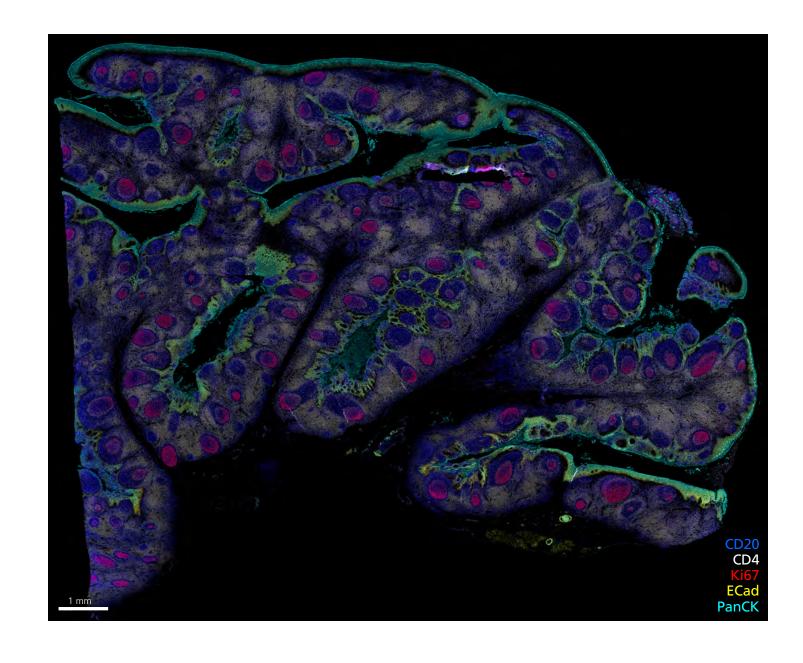


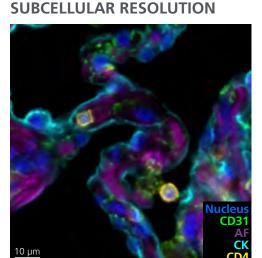
WHOLE SLIDE ONE-STEP STAIN AND SCAN SPATIAL BIOLOGY SOLUTION

Orion is a novel technology and services platform offering the fastest path to whole slide, high-plex imaging. Combining speed and subcellular resolution, Orion enables comprehensive phenotypic profiling and characterization of tissue architecture, tumor heterogeneity, and the immune response for whole slide tissue sections in hours, not days.

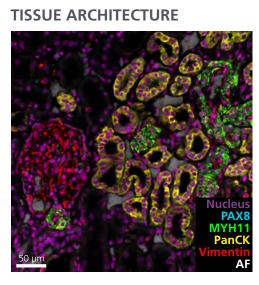
Exceptional signal-to-noise ratio provides robust quantification of biomarkers across a broad dynamic range. The ability to measure changes in expression of low-level markers supports translational and clinical research.

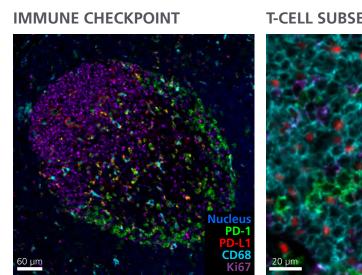
Run panels from an extensive biomarker list, add in custom biomarkers, or engage our services lab for custom panels and programs.

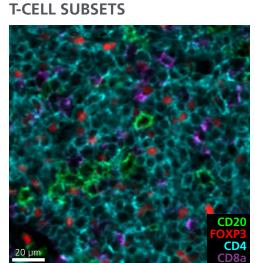












UNLOCK BIOLOGICAL
INSIGHTS THROUGH
ORION INTERACTIVE
DATA SETS



A COMPLETE SOLUTION OF PRODUCTS & SERVICES FOR HIGHLY MULTIPLEXED IMAGING

Orion

Orion utilizes flexible hardware, software, and reagents to deliver the high performance, resolution and flexibility required for research and clinical assays.



ORION INSTRUMENT

Orion is a benchtop, high resolution, whole slide multimodal imaging instrument that uses a combination of quantitative immunofluorescence and bright field imaging for robust spatial biology studies and biomarker quantitation.

Specifications

- Stain and image multiple slides per day
- Full-slide scan in 75 mins per cm² at 20X
- Flexible panel design use your own antibodies
- Same slide IF and H&E imaging
- Use standard slides & sample preparation
- Compatible with clinical & archived samples
- Fits on a standard laboratory benchtop
- Flexible OME-TIFF data format for quantitation

ORION REAGENTS

Orion reagents are designed to enable panel flexibility to meet your research needs.

Antibodies of your choice are labeled directly with ultra-bright ArgoFluor™ dyes, allowing simple, single-round staining and scanning of all biomarkers without amplification.

Choose from validated off-the-shelf ArgoFluor labeled antibodies, simple-to-use conjugation kits to label your own antibodies of choice, or engage our team for ArgoFluor custom conjugation services.



ORION SOFTWARE

Orion's on-board software provides database functionality for easy file management and enables powerful image visualization, annotation, and sharing to facilitate collaboration for highly multiplexed datasets. Users also have the flexibility to export quantitative data to the pipeline of their choice.





PRECISION BIOLOGY SERVICES

Orion technology supports all aspects of spatial tissue services for pharma partners and translational medicine researchers.

Our team works with you to define custom panels and program requirements; utilizing reagents, consumables, and instrumentation that provide a sensitive, accurate, and reproducible workflow.

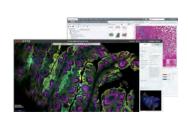
With scientific rigor and under pathologist guidance, our team will deliver high quality results for your program.

A PRACTICAL WORKFLOW FOR RESEARCH AND CLINICAL APPLICATIONS











Multiplexed imaging in a single scan

IMAGE

OME-TIFF output for viewing and quantitation

ANALYZE

UNLOCK SPATIAL BIOLOGY WITH ORION TECHNOLOGY

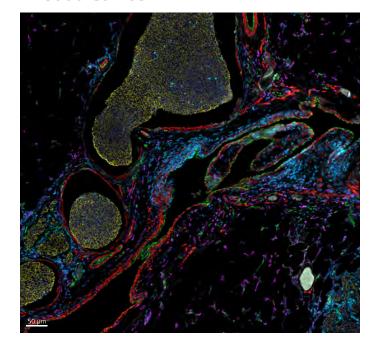
- ✓ High-plex, whole slide imaging
- Stain and image in hours, not days
- Rapid, single round stain and scan
- ✓ Subcellular resolution
- 🗸 Same slide H&E imaging

- Flexible panel design
- FFPE & fresh frozen tissue compatible
- Uses standard microscope slides
- Quantitative across a broad dynamic range
- ✓ OME-TIFF open file format

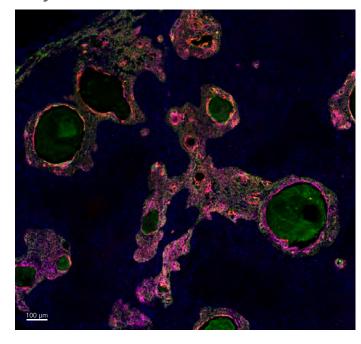
ENABLE RAPID SPATIAL ANALYSIS

Orion enables single-step IF staining and imaging of standard FFPE or fresh frozen tissue with the additional benefits of industry standard H&E and IHC modes.

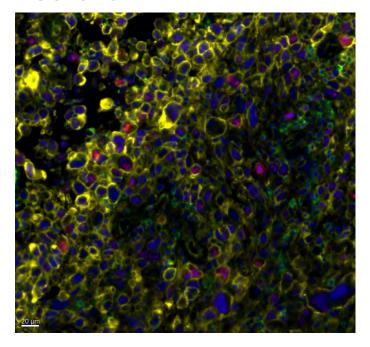
Breast Cancer



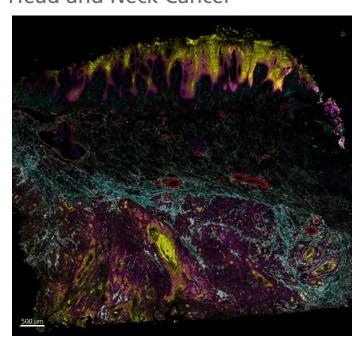
Thymus



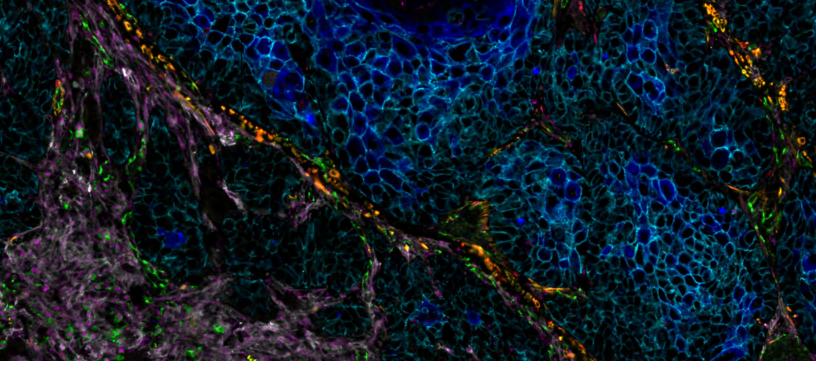
Melanoma



Head and Neck Cancer







Orion PRECISION SPATIAL BIOLOGY



RARECYTE Precision Biology for Life Sciences

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