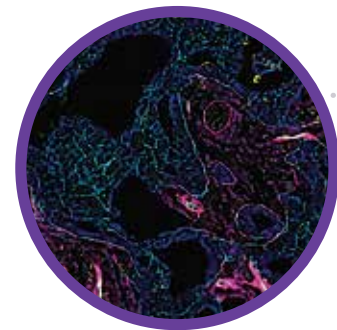


**SCALE YOUR DISCOVERIES WITH THE
FASTEST SINGLE-CELL SPATIAL SOLUTION**

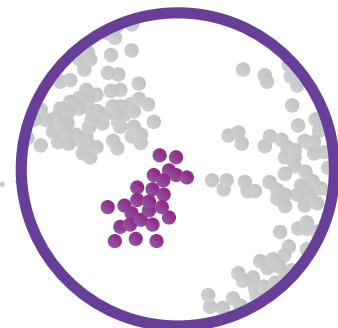
VISIT akoyabio.com/fusion TO LEARN MORE

MAP A MILLION CELLS IN 10 MINUTES WITH PHENOCYCLER-FUSION





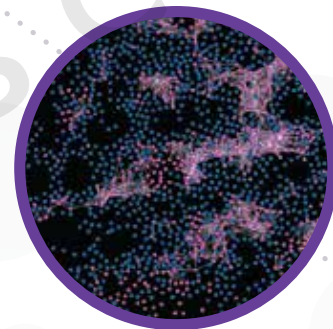
CELL PHENOTYPING
in situ at single-cell resolution



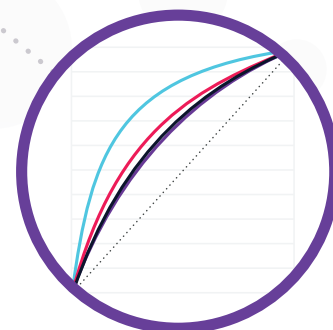
RARE CELL DISCOVERY
by imaging every cell across whole-slides



FUNCTIONAL STATE
mapping with multiomic detection (RNA, protein)



CELLULAR NEIGHBORHOODS
cellular neighborhood analysis enabled by ultrahigh-plex imaging



SPATIAL SIGNATURE
development through high-throughput studies

A FRAMEWORK FOR COMPREHENSIVE SPATIAL PHENOTYPING

Scaling up spatial discovery is now a reality.

INTRODUCING PHENOCYCLER-FUSION

A breakthrough solution for comprehensive and unbiased spatial phenotyping.

FAST

Map 1 million cells in as little as 10 minutes

UNBIASED

Image whole slides rapidly

ULTRAHIGH-PLEX

Analyze 100+ biomarkers from any sample type

HIGH-THROUGHPUT

Analyze 5 to 100+ slides per week

HIGH-RESOLUTION

Single-cell and sub-cellular resolution

MULTIOMIC

Analyze RNA and protein markers from the same sample



AN INTEGRATED END-TO-END SOLUTION

The PhenoCycler-Fusion system is part of an integrated spatial biology workflow from staining to analysis.



STAIN

Whole-slide staining of tissues using pre-designed or custom antibody panels.

IMAGE

Flow-cell enabled automated whole-slide fluidics and iterative image acquisition.

ANALYZE

Visualize and interpret using Akoya's software suite or open-source solution.

A comprehensive workflow starting with single-step tissue staining to preserve sample integrity, image acquisition and on-board processing allowing you to go from sample-to-data in 24 hours.

FLEXIBLE OPTIONS TO MEET YOUR NEEDS



SPECIES

Mouse or human

TISSUE FORMAT

Formalin-fixed, paraffin-embedded (FFPE), fresh frozen or TMAs

ANTIBODY PANELS

Ranging from validated, customized or pre-designed panels

NEED A HAND TO GET STARTED? EXPLORE STEP

With our Spatial Tissue Exploration Program (STEP), you can request a custom conjugation service or see the data with your own samples.

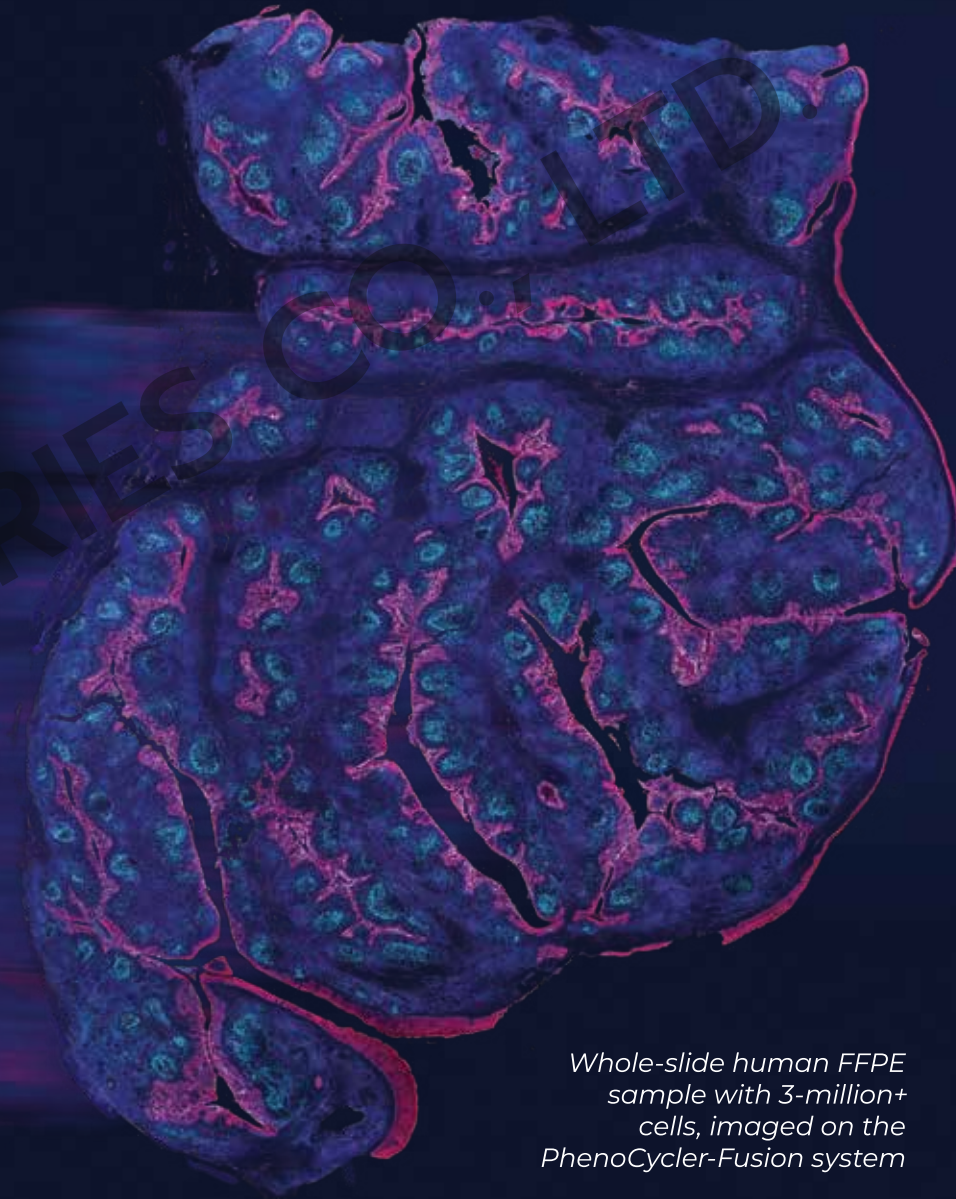


GET A QUOTE AT: akoyabio.com/step



High-speed imaging technology that can map 1 MILLION CELLS IN 10 MINUTES

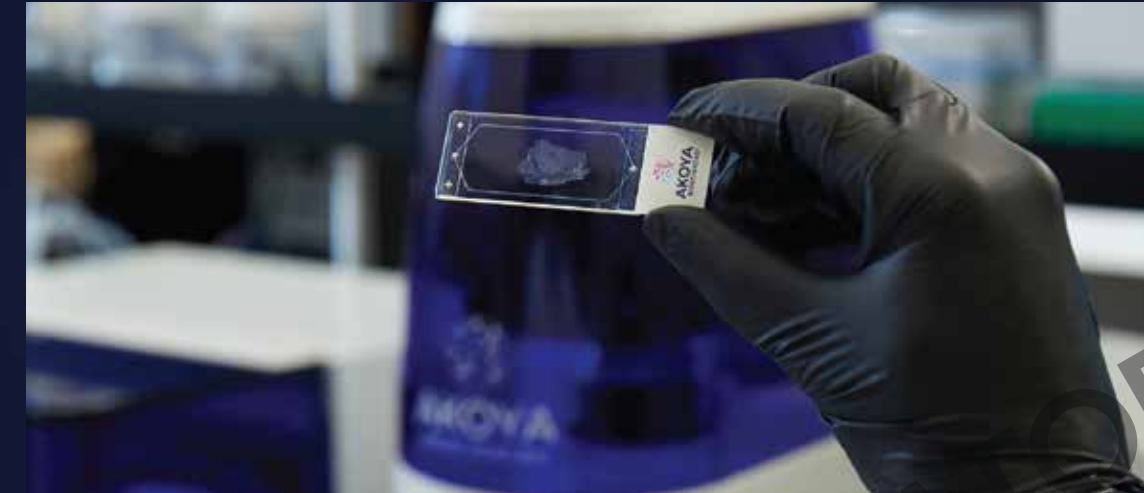
A game-changing innovation for unbiased spatial discovery, the PhenoCycler-Fusion system enables ultrahigh-plex, whole-slide imaging so you don't lose valuable hours in image acquisition.



Whole-slide human FFPE sample with 3-million+ cells, imaged on the PhenoCycler-Fusion system



UNLOCK INSIGHTS FROM ARCHIVED FFPE SLIDES



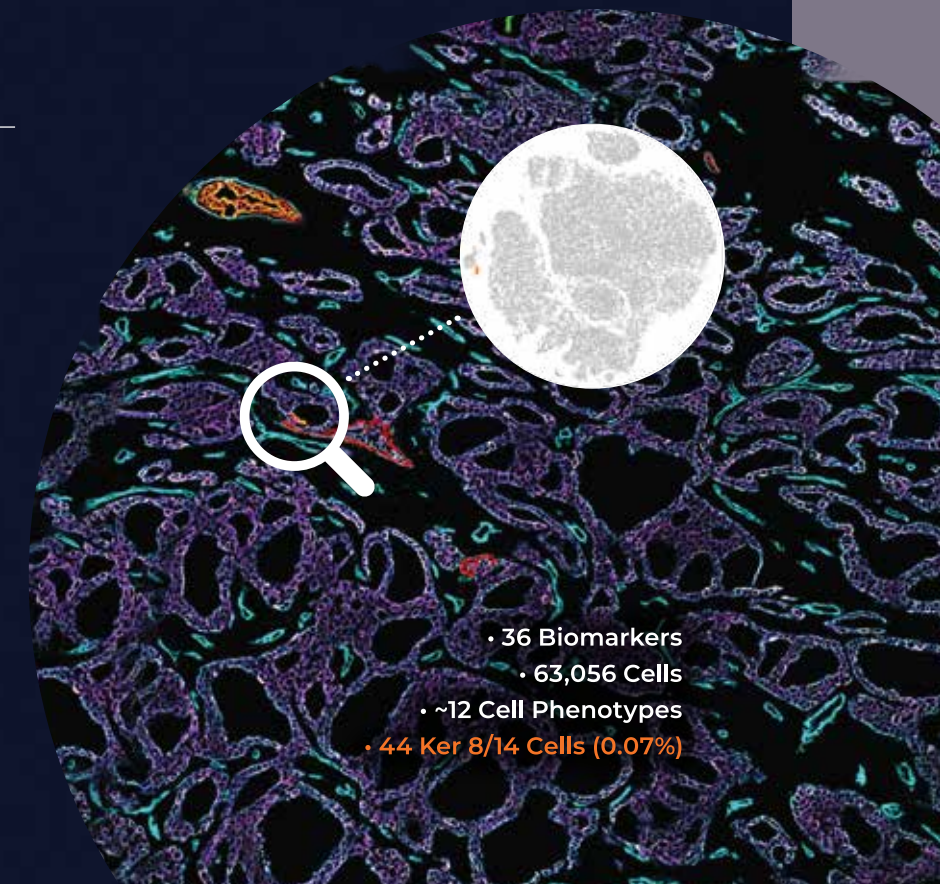
Novel flow cell technology for deep spatial phenotyping from standard microscope slides.

CASE STUDY:

THE POWER TO DISCOVER RARE CELLS

The PhenoCycler solution enabled the discovery of a rare cell type in a breast cancer FFPE sample, previously only described in healthy breast tissue. This discovery highlights the power of unbiased whole tissue imaging at single-cell resolution.

↓ DOWNLOAD APP NOTE AT: akoyabio.com/rarecell





Connective Tissue
SUBURBS



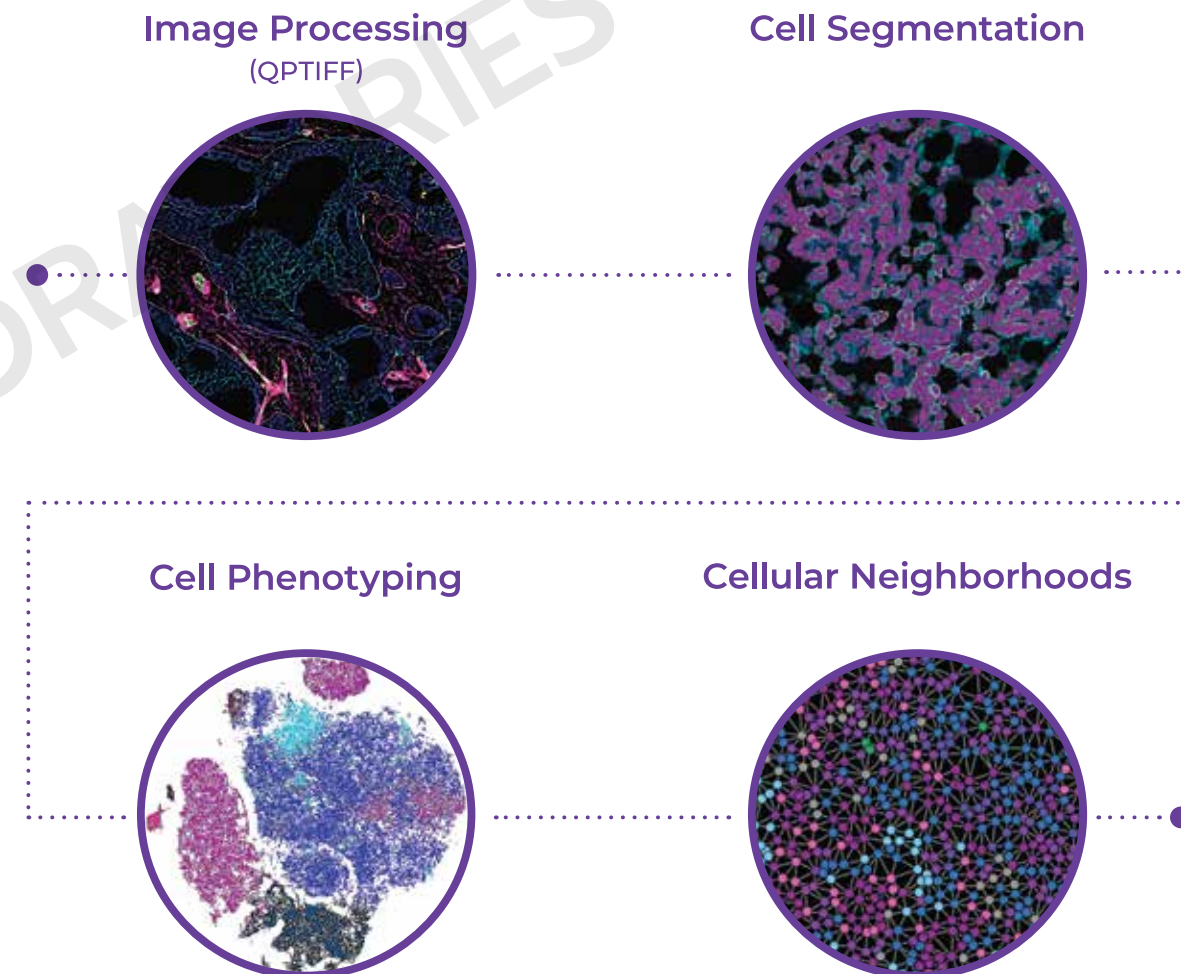
Lobular Units
METROPOLITAN AREAS



Ducts
INTERSTATE HIGHWAYS

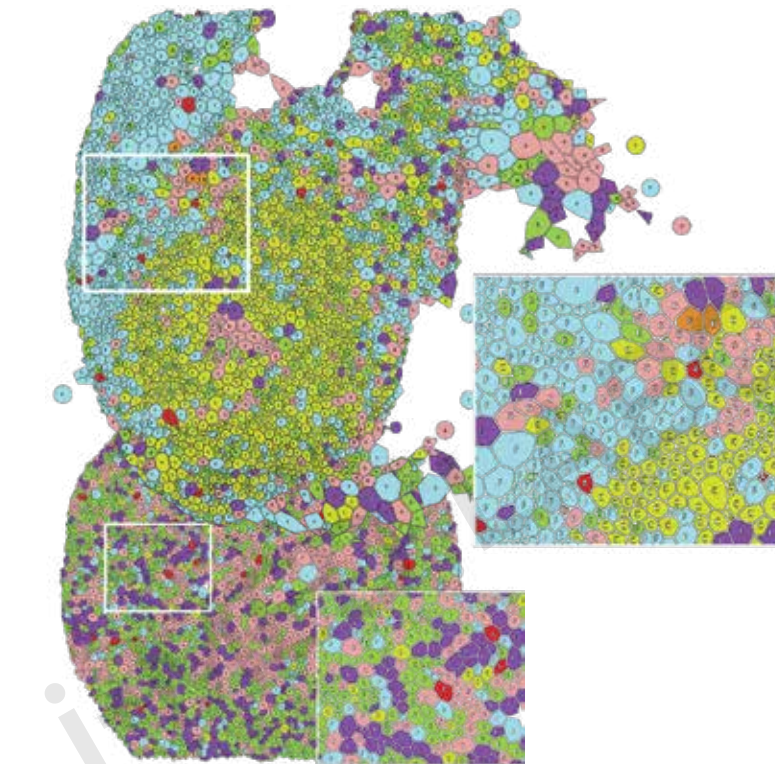
AN ANALYTICAL FRAMEWORK FOR COMPREHENSIVE SPATIAL PHENOTYPING

From rare cell discovery to cellular neighborhoods, spatial phenotyping has myriad applications. The steps below illustrate an essential framework to go from raw images to spatial insights.



FLEXIBLE OPTIONS FOR DOWNSTREAM DATA ANALYSIS

Open doors to comprehensive spatial phenotyping via analysis-ready QTIFF files directly from the instrument. QTIFF files can be analyzed via Akoya software suite or a variety of third-party solutions.



Discovery of spatial neighborhoods in colorectal cancer (CRC). Distinct spatial neighborhoods distinguish lethal CRC from Crohn's-like reaction associated with longer overall survival.



CASE STUDY:

FROM CELL PHENOTYPES TO SPATIAL NEIGHBORHOODS

In this seminal *Cell* publication, researchers at Stanford utilized the PhenoCycler solution to analyze how cells organize into neighborhoods, much like a city, that influence disease progression and outcomes in colorectal cancer.

DOWNLOAD APP NOTE AT: akoyabio.com/neighborhood

DISCOVER

Translate your discoveries into actionable spatial phenotypic signatures with our connected ecosystem of solutions

The PhenoCycler-Fusion Solution *Spatial Discovery at Scale*

Rapid whole-slide imaging of 100+ biomarkers.



UNBIASED

TRANSLATE



FAST

IMPLEMENT



PROVEN

CASE STUDY:

Johns Hopkins researchers discovered a highly predictive immunotherapy signature by combining Akoya's PhenolMager high-throughput solution with sky mapping algorithms from Astronomy.

SEE HOW AT: akoyabio.com/astropath

The PhenolMager Solution *Spatial Signatures at Scale*

Rapid whole-slide imaging of 6 biomarkers, 300+ slides per week

OF MARKERS PER RUN

OF SAMPLES PER DAY