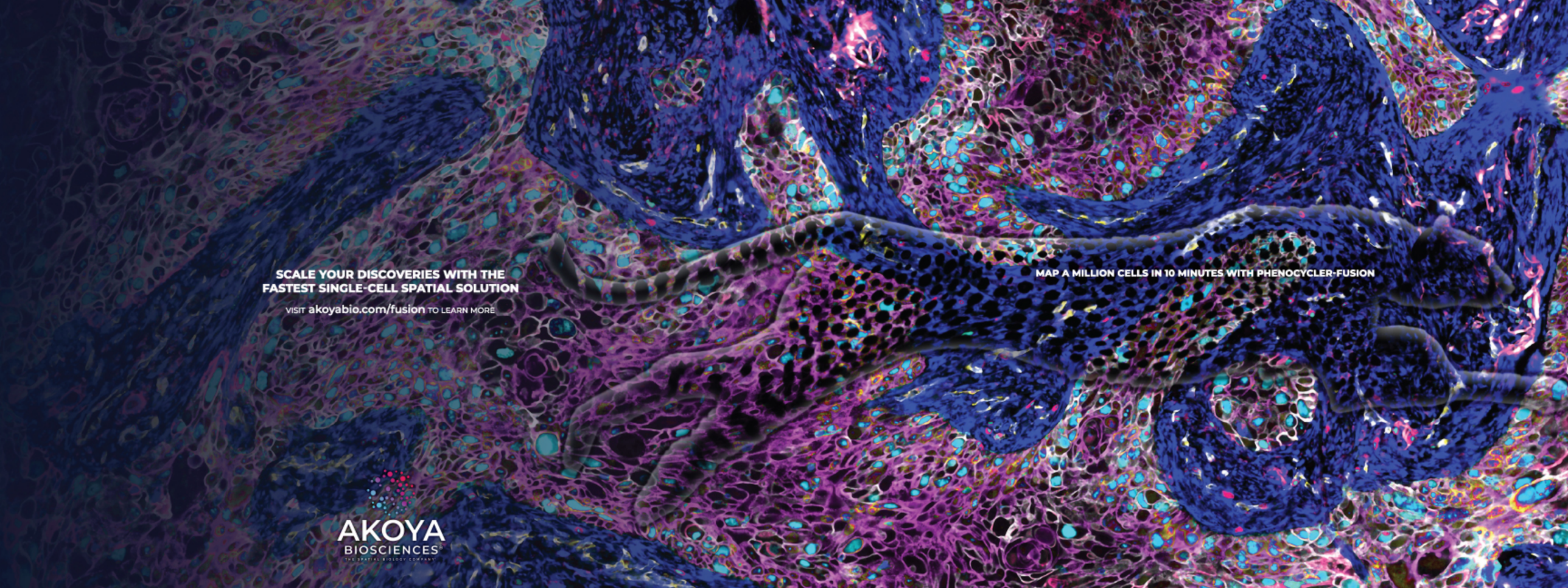
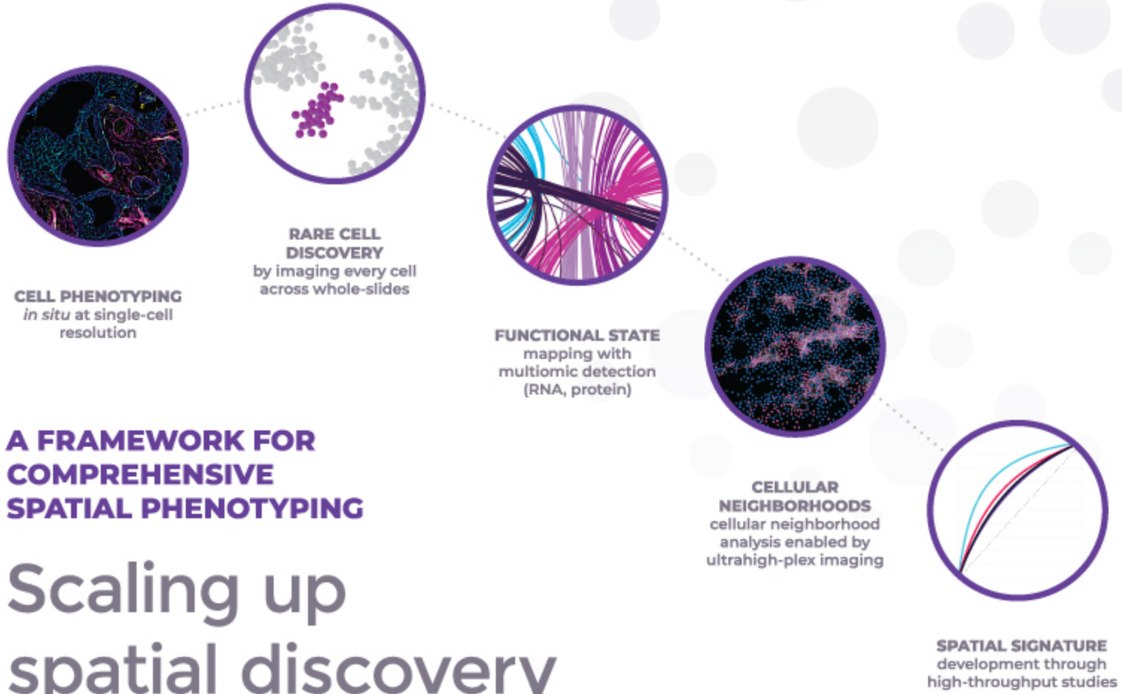

SCALE YOUR DISCOVERIES WITH THE
FASTEST SINGLE-CELL SPATIAL SOLUTION
VISIT akoyabio.com/fusion TO LEARN MORE
MAP A MILLION CELLS IN 10 MINUTES WITH PHENOCYCLER-FUSION
AKOYA
BIOSCIENCES
THE SPATIAL BIOLOGY COMPANY



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

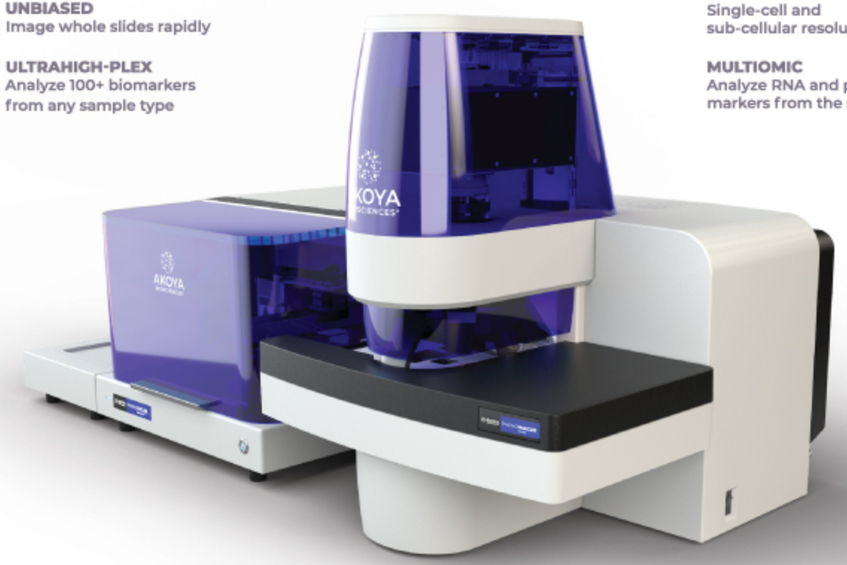
UNBIASED
Image whole slides rapidly

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.

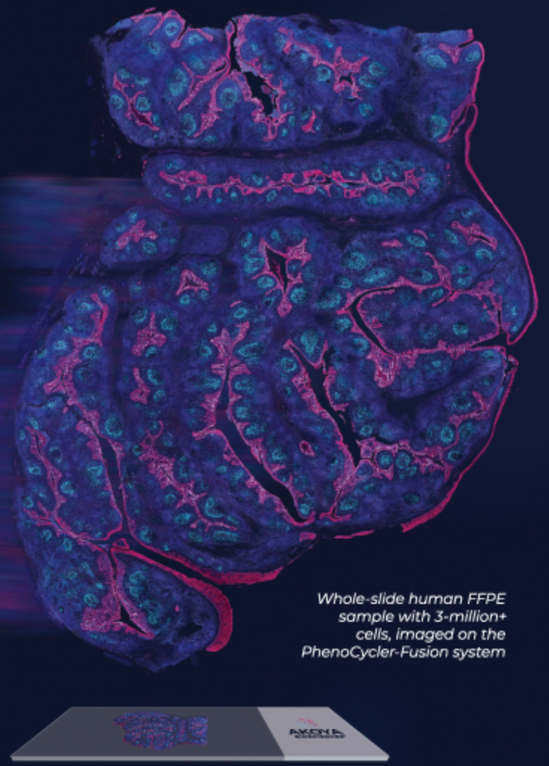
GET A QUOTE AT: **akoyabio.com/step**

IMAGE

High-speed imaging technology that can map

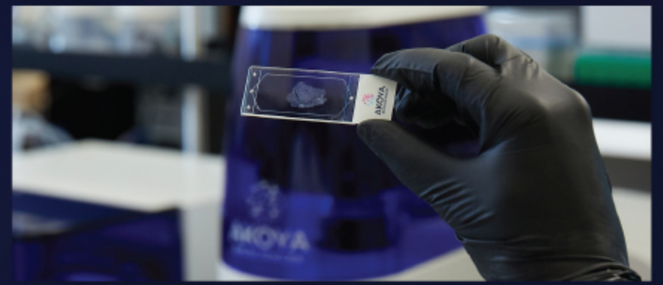
1 MILLION CELLS IN 10 MINUTES

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



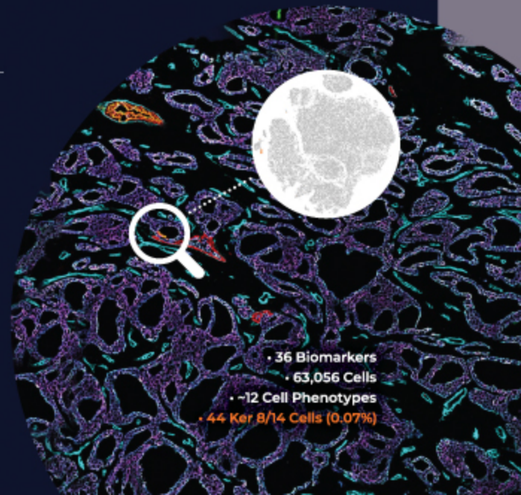
Novel flow cell technology for deep spatial phenotyping from standard microscope slides.

CASE STUDY:

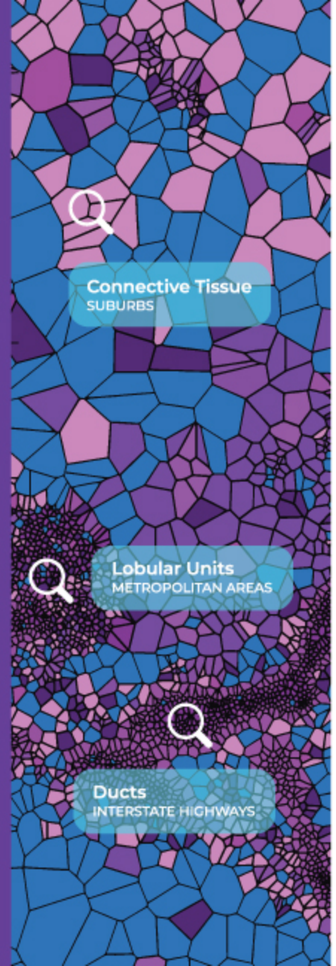
THE POWER TO DISCOVER RARE CELLS

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**

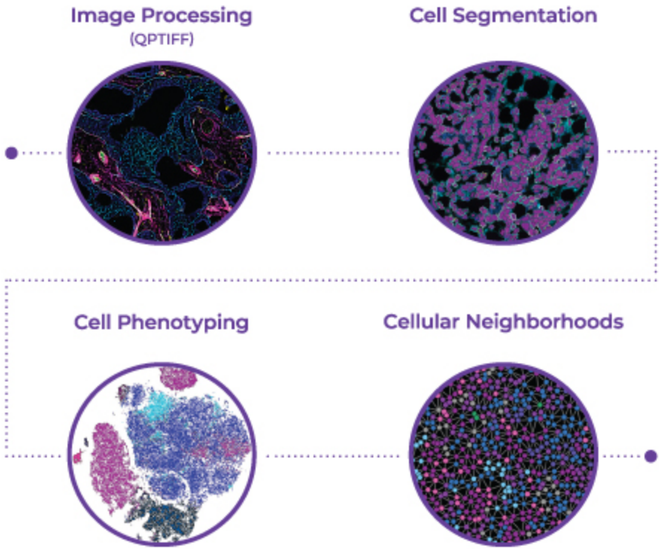


IMAGE



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 QPTIFF files directly from the instrument. QPTIFF 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**

ANALYZE

DISCOVER

TRANSLATE

IMPLEMENT

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

PROVEN

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

SEE HOW AT: **akoyabio.com/astropath**

The PhenoImager Solution
Spatial Signatures at Scale

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

 # OF MARKERS PER RUN

 # OF SAMPLES PER DAY