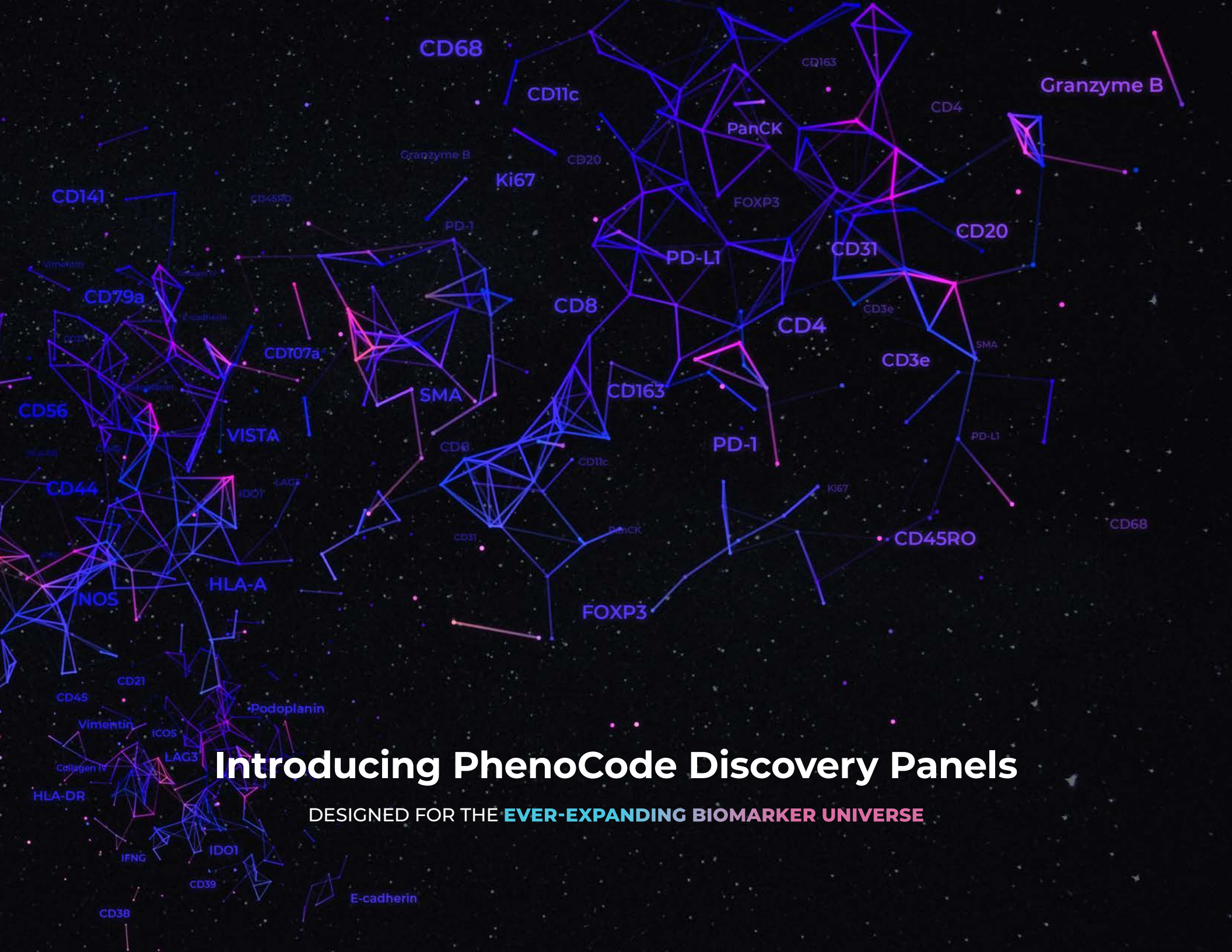


Introducing PhenoCode Discovery Panels

DESIGNED FOR THE **EVER-EXPANDING BIOMARKER UNIVERSE**

CELL PHENOTYPING
in situ at single-cell resolution

RARE CELL DISCOVERY
by imaging every cell across whole-slide

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

Simplifying spatial discovery is now a reality.

INTRODUCING PHENOCODE DISCOVERY PANELS

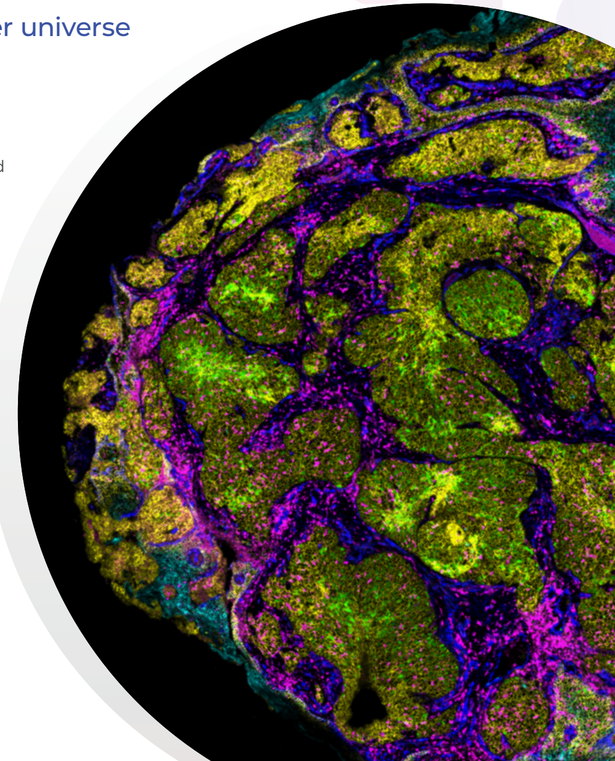
Designed for the ever-expanding biomarker universe

RELEVANT
Designed to answer the most critical and pertinent questions in spatial discovery

SCALABLE
Mix and match panels to increase plex and answer deeper biological questions

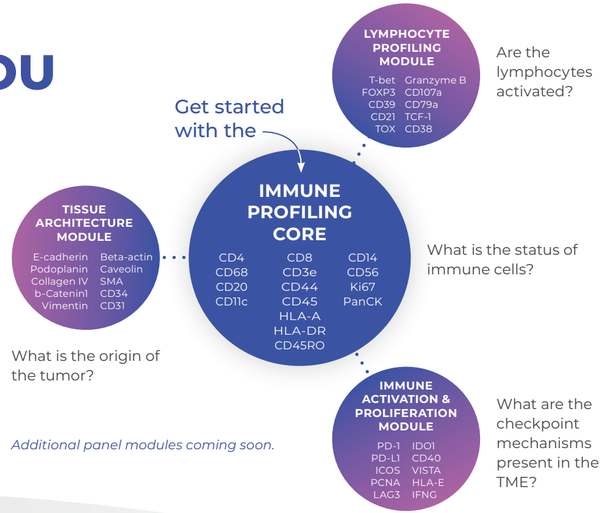
READY-TO-USE
Conjugated and validated panels to accelerate your spatial research by 3X

SIMPLIFIED
A simplified end-to-end workflow for spatial discoveries



WHAT WILL YOU DISCOVER?

PhenoCode™ Discovery Panels enable thorough interrogation of the tumor and the surrounding tumor microenvironment (TME). Each panel module is meticulously designed with essential markers to answer key biological questions to accelerate your path from question to discovery.



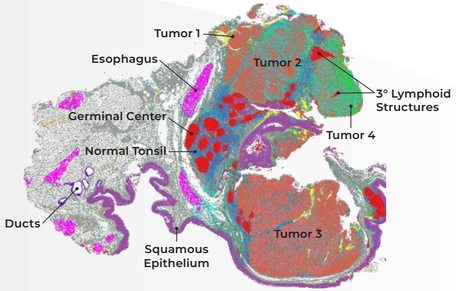
Additional panel modules coming soon.

100-PLEX CASE STUDY

Deep Spatial Phenotyping Could Explain Partial Immunotherapy Response

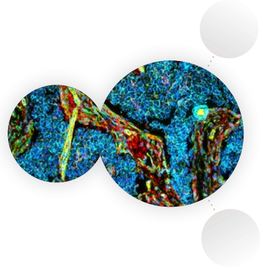
Whole-slide spatial phenotyping of a head and neck cancer sample with a 103-plex panel revealed differences in immune cell infiltration between the four tumor regions (e.g., Tumor region 4 is hot, Tumor region 3 is cold). This heterogeneity may have contributed to the partial immunotherapy response seen in this patient.

DOWNLOAD APP NOTE AT
akoyabio.com/100-plex



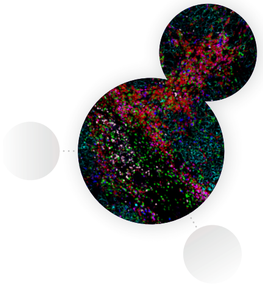
MIX AND MATCH PANELS TO ANSWER DEEPER QUESTIONS

PhenoCode Discovery Panels can be used on their own or combined to answer different biological questions. Add panel modules together to increase your plex and gain new insights.



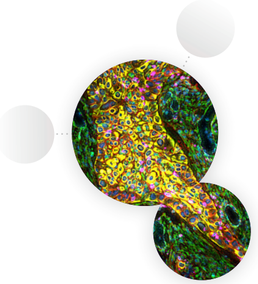
IMMUNE PROFILING CORE + TISSUE ARCHITECTURE MODULE

Does the tumor have the exclusion phenotype?



IMMUNE PROFILING CORE + LYMPHOCYTE PROFILING MODULE

What are the mechanisms of immune activation and evasion in the tumor?



IMMUNE PROFILING CORE + IMMUNE ACTIVATION & PROLIFERATION MODULE

What is the functional status of the tumor?

READY-TO-USE

CATALYZE YOUR SPATIAL DISCOVERIES WITH READY-TO-USE PANELS

PhenoCode Discovery Panels are ready-to-use panels, meticulously designed and validated to reduce upfront assay development and validation time, speeding your spatial discoveries by 3X.

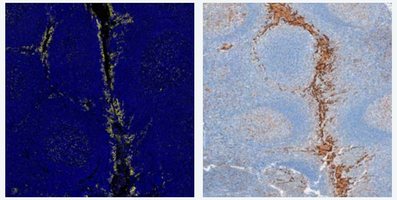
Simply select your panel modules of choice and get started with your research.

TECHNICAL NOTE

Validation and Development of PhenoCode Discovery Panel Modules

PhenoCode Discovery Panels go through extensive screening, optimization, and validation to maximize performance and efficiency. Discovery panel modules are pre-optimized and have been designed to seamlessly work together to achieve ultrahigh-plex detection enabling time and cost savings.

DOWNLOAD TECHNICAL NOTE AT
akoyabio.com/discovery-validation



Comparison of PhenoCycler Antibody performance (left panel) with orthogonal DAB IHC (right panel) staining for PD-L1 shows comparable staining and expression patterns in human tonsil tissue.

A SIMPLIFIED END-TO-END WORKFLOW FOR SPATIAL DISCOVERIES

Accelerate your spatial discoveries with ready-to-use panels, the fastest spatial biology platform and streamlined data analysis.

Whole-slide staining of tissues using PhenoCode Discovery Panels.

Automated cycling and high-speed imaging with PhenoCycler® -Fusion.

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

SIMPLIFIED

akoyabio.com/phenocode

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THE SPATIAL BIOLOGY COMPANY®