Introducing PhenoCode Signature Panels

DESIGNED FOR THE EVER-CHANGING COMBINATION THERAPY LANDSCAPE
PREDICTIVE SPATIAL SIGNATURES FOR THE NEXT GENERATION OF COMBINATION THERAPIES

Get Higher Predictive Accuracy

The development of clinically useful biomarkers to select responders for combination therapies will be critical for the advancement of such treatments. A recent meta-analysis has shown that spatial phenotyping, enabled by multiplexed imaging, more accurately predicts patient response to anti-PD-1/PD-L1 therapy than other biomarker modalities. Spatial signatures are a novel biomarker class developed by spatial phenotyping the tumor microenvironment (TME) that can better predict immunotherapy response.


INTRODUCING PHENOCODE SIGNATURE

Designed for the ever-changing combination therapy landscape

CASE STUDY
AstroPath Signature Provides Excellent Accuracy in Predicting Objective Response (AUC >0.80)

Investigators at Johns Hopkins University took a novel approach to developing spatial signatures for accurate prediction of immunotherapy response, combining sky mapping algorithms with Akoya’s cutting-edge PhenoImager platform.

LEARN HOW TO DEVELOP A SPATIAL SIGNATURE: akoyabio.com/astropath-signature

RELEVANT
Answer the most pertinent questions to interrogate the TME

FLEXIBLE
Answer novel questions by adding your marker of choice

FAST
Speed up spatial signature development by 3X

SCALABLE
Seamlessly translate discoveries into predictive biomarkers with the PhenoImager® solution
PhenoCode Signature panels are designed to provide flexibility, allowing for the easy integration of one additional marker to a 5-plex panel. Analyze additional cell phenotypes or address your specific research question with your own marker of choice.

Where are the activated immune cells?
Which cell types are proliferating?
Where are the helper T cells?
Where are the B cells?
Are the T cells exhausted?

PhenoCode™ Signature 5-Plex Base Panels

**START WITH ASKING THE RIGHT QUESTIONS**

Decode the science of response to combination therapy

**FLEXIBILITY TO ANSWER MORE QUESTIONS QUICKLY**

PhenoCode Signature panels are designed to provide flexibility, allowing for the easy integration of one additional marker to a 5-plex panel. Analyze additional cell phenotypes or address your specific research question with your own marker of choice.

- **Immuno-Contexture Panel**
  - Is the tumor "hot" or "cold"?

- **Immune Profile Panel**
  - Where are the immune cells in the TME?

- **Activated TIL Status Panel**
  - Are the tumor cells proliferating or lymphocytes activated?

- **M1/M2 Polarization Panel**
  - Where are the TAMs in relation to the tumor margin?

- **Exhaustion Panel**
  - Where are the exhausted and regulatory T cells?

- **1 CUSTOM**
  - Marker of choice for specific research question
PhenoImager HT’s patented MSI technology provides rapid whole-slide image acquisition with walkaway automation. Visualize and interpret using Akoya’s software suite or open-source solution.

Whole-slide staining of tissues using PhenoCode Signature panels.

PhenolMapper HT’s patented MSI technology provides rapid whole-slide image acquisition with walkaway automation.

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

**CASE STUDY**

**Spatial Signature Spotlight**

The spatial suppression index based on organization of tumor-infiltrating immune cells is a strong prognostic marker. The distance from FoxP3+ Tregs to CD8+ T cells and PD-L1+ cells to CD8+ T cells predicts the outcome in HPV(−) OSCC.
