

NanoVipTM

Fully Automated System for Spatial Biology



omicsveu

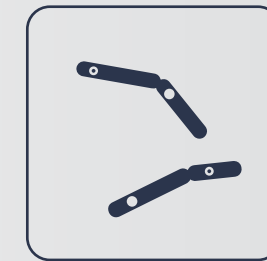
Introducing NanoVip™

The Spatial Multiplex Multiomics System

The NanoVip™ system offers a broad range of spatial multiplex multi-omics solutions consisting of a fully automated staining system, ready-to-use probes, multiplexing antibodies, visualization kits and consumables for spatial biology. The system includes the EZ-AR™ Elegance Line for an all-in-one de-wax rehydration and universal retrieval solution for all proteins and nucleic acids. NanoVIP® is an all-in-one fully automated system, from microtome to slides, ready for imaging and imaging mass cytometry.



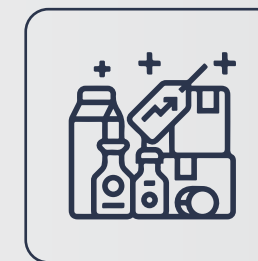
Fully automated
staining system



Ready-to-use
probes



Multiplexing
antibodies



Consumables



Ready-to-use
visualization kits

STATE-OF-THE-ART AUTOMATION



MICRO-CHAMBER

Reduces total reaction volumes



PRECISION PIPETTING

Dispenses and maintains accurate volume



INDEPENDENT WORKSTATIONS

Customizable individual protocols for each workstation.



24 REAGENT VIALS

Minimizes dead volume (400 μ L) with Eppendorf® insert (50 μ L)



PRECISION TEMPERATURE

Peltier technology ensures accurate temperature maintenance on each slide position



ECO-FRIENDLY

Complete xylene-free system generates low-volume waste from washes

Immunoveu

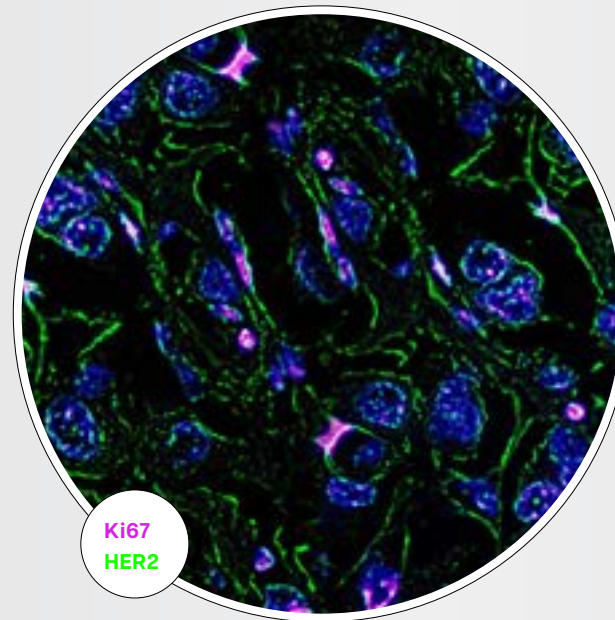
Proteomics Profiling

Immunoveu is a multiplexing immunofluorescence (IF) technique that allows simultaneous localization of multiple biomarkers. Omicsveu offers two methods for Immunoveu technology:

(1) Direct-barcoded, labeled Primary Antibody and (2) Secondary-Labeled Antibody.

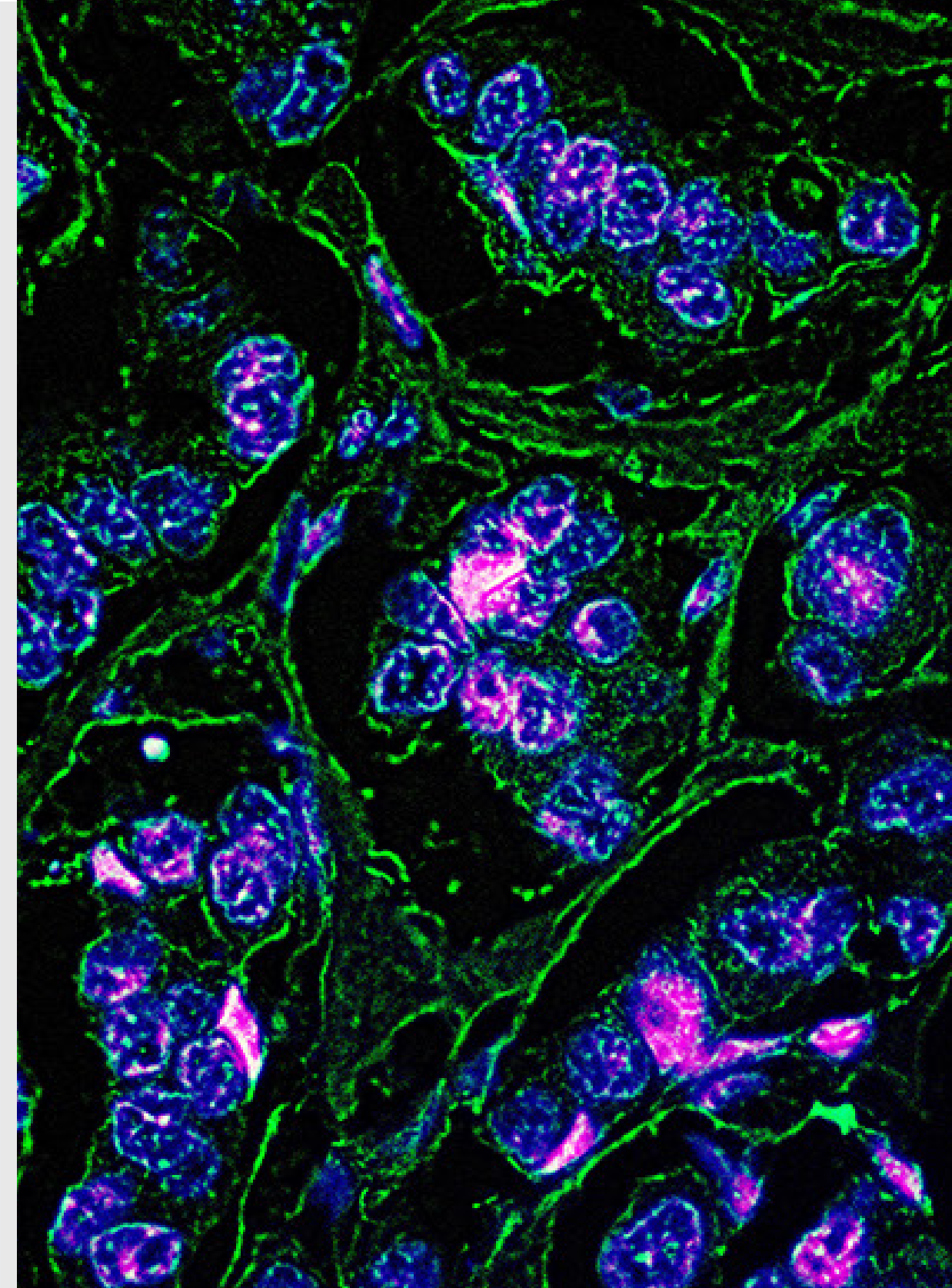
Direct-barcoded, labeled Primary Antibody method uses antibodies conjugated with unique DNA barcodes, which are recognized by complementary probes conjugated to multiple fluorophores.

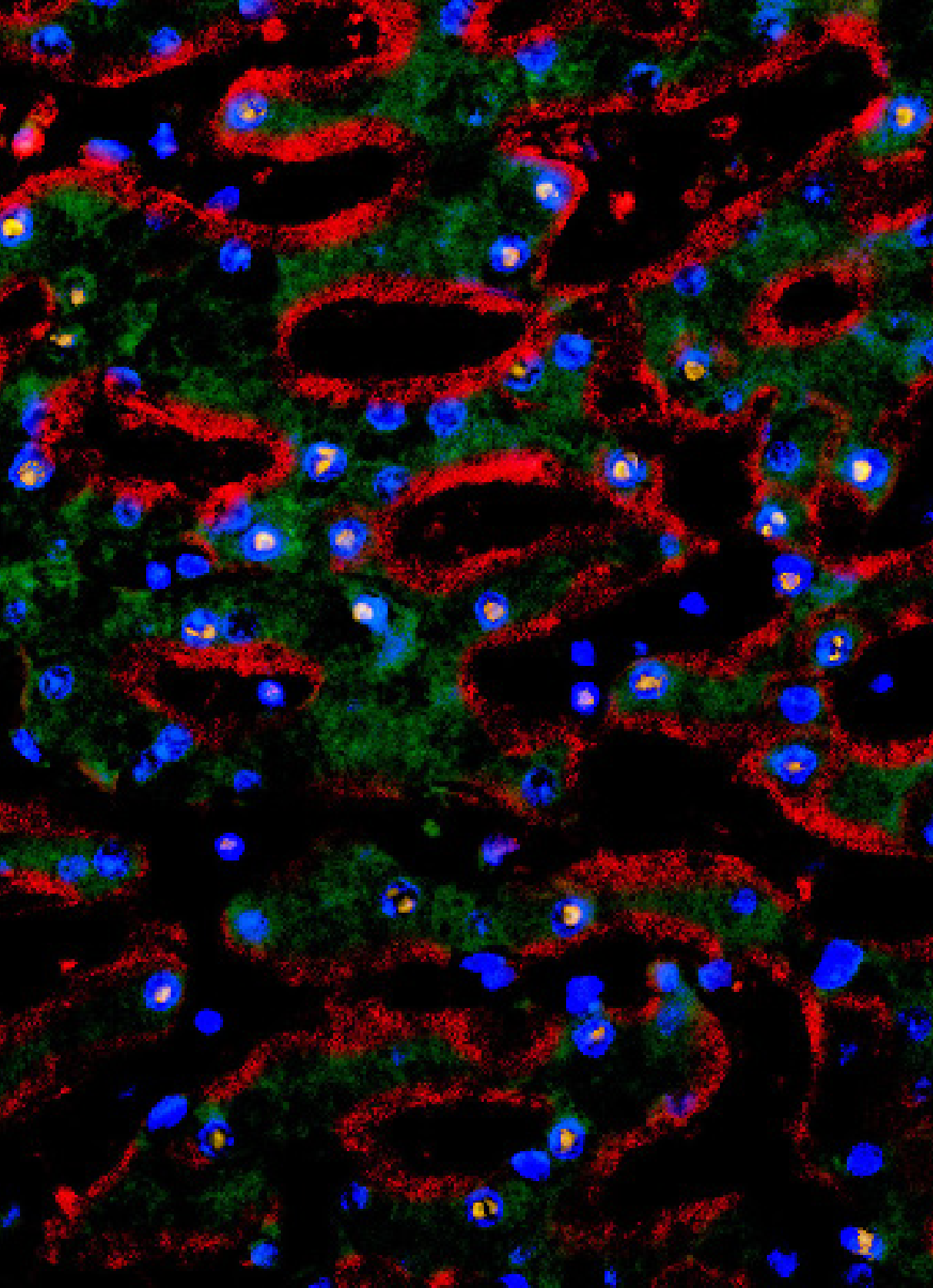
Secondary-Labeled Antibody method has DNA barcode attached. The complementary DNA sequence has 20 fluorophores conjugated to give intense signal. This system allows researchers to use their own primary antibodies.



Breast adenocarcinoma

Both methods enable detection of low abundance antigen targets, providing clean, intense, and crisp stains. Phenoveu localizes multiple markers through multiple cycles of staining, imaging, signal stripping, followed by subsequent multiplexing.

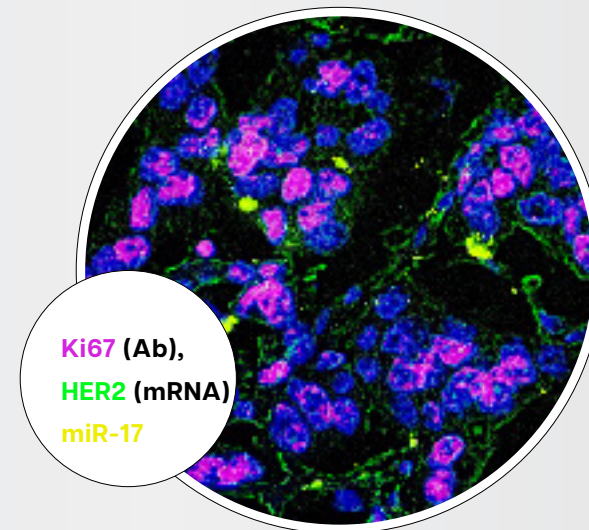




Transcriptomics and Phenomics

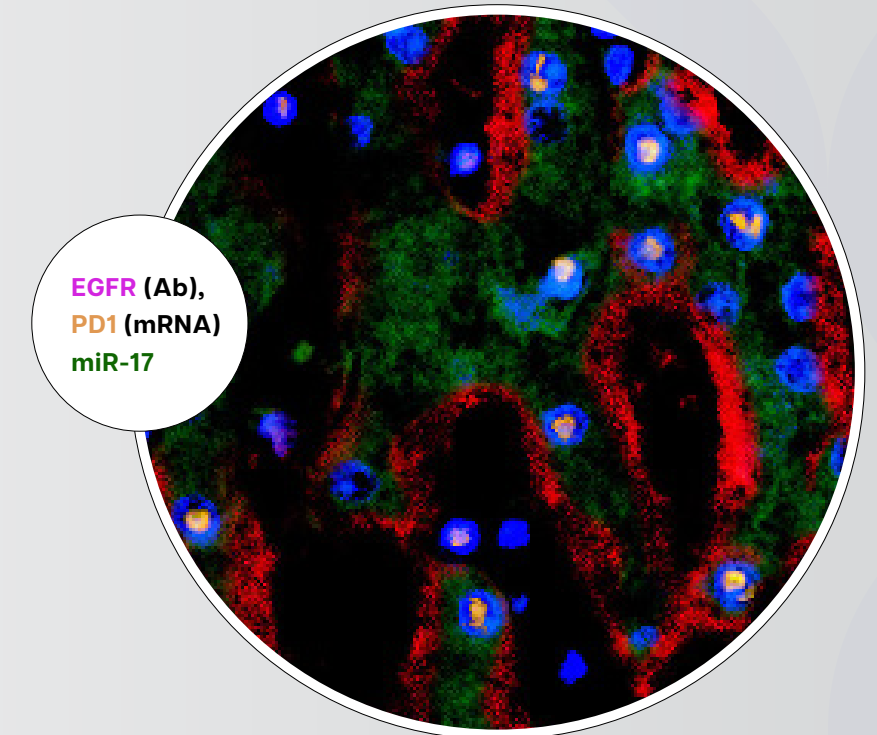
Transcription & Translation in One

The co-localization of proteins, mRNA, DNA, and miRNA in the same tissue sections to provide valuable insights into cellular processes.



Ki67 (Ab),
HER2 (mRNA)
miR-17

BT474 cell lines



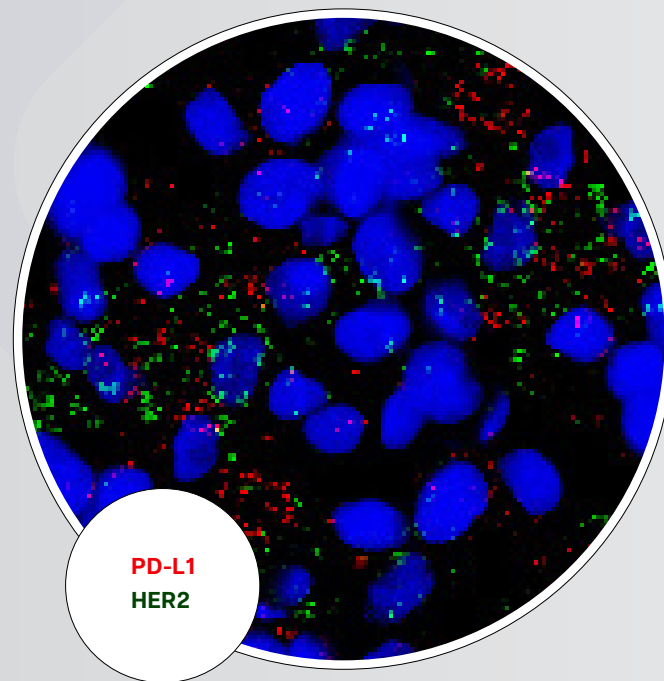
EGFR (Ab),
PD1 (mRNA)
miR-17

Colon adenocarcinoma

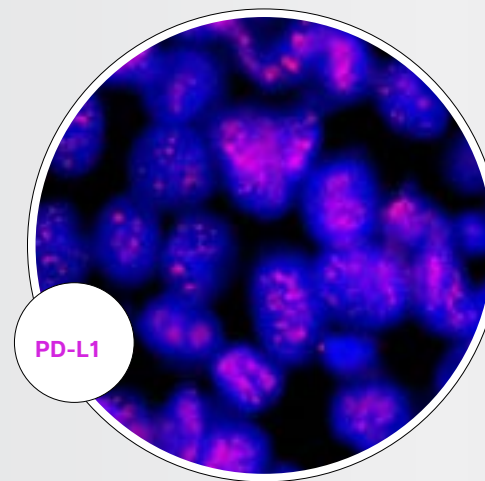
RNAveu

Multiplex mRNA transcripts

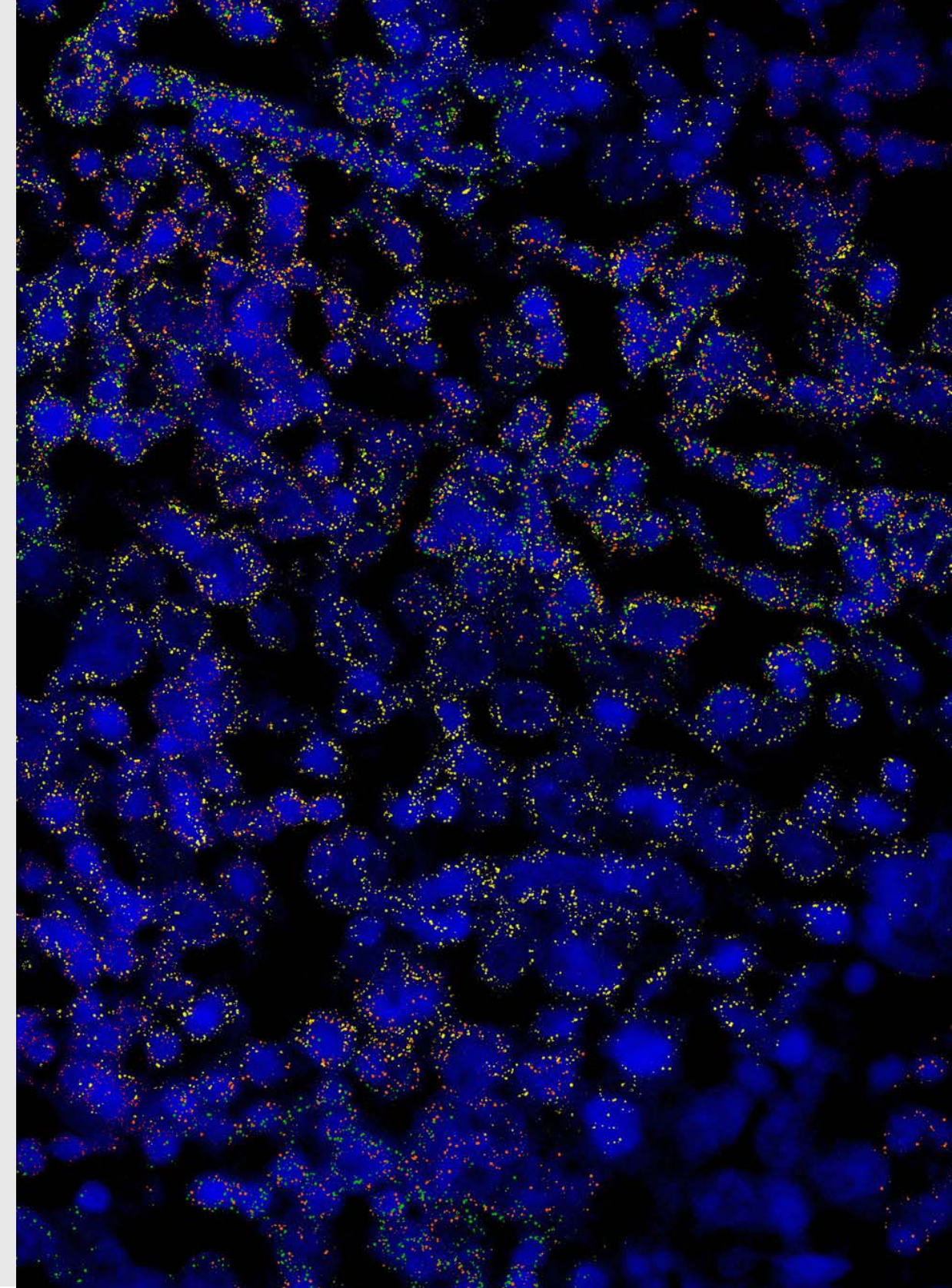
Spatial transcriptomics is a powerful means to visualize the expression patterns of multiple nucleic acid targets in an individual cell in the spatial context. RNAveu technology enables co-localization of multiple transcriptome targets, signal stripping followed by subsequent rounds of FISH cycles for scoring.

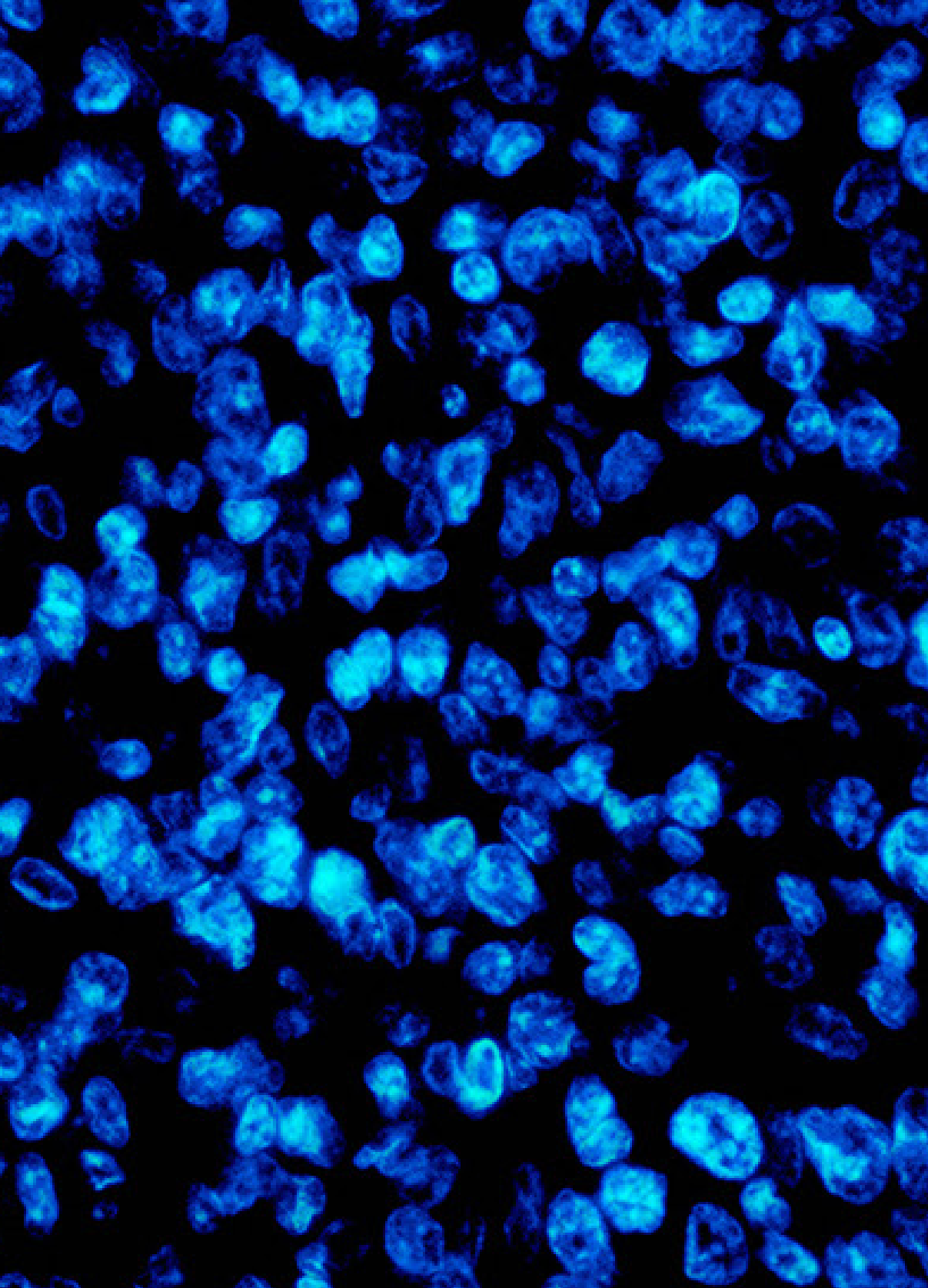


Breast tumour



Prostate tumour

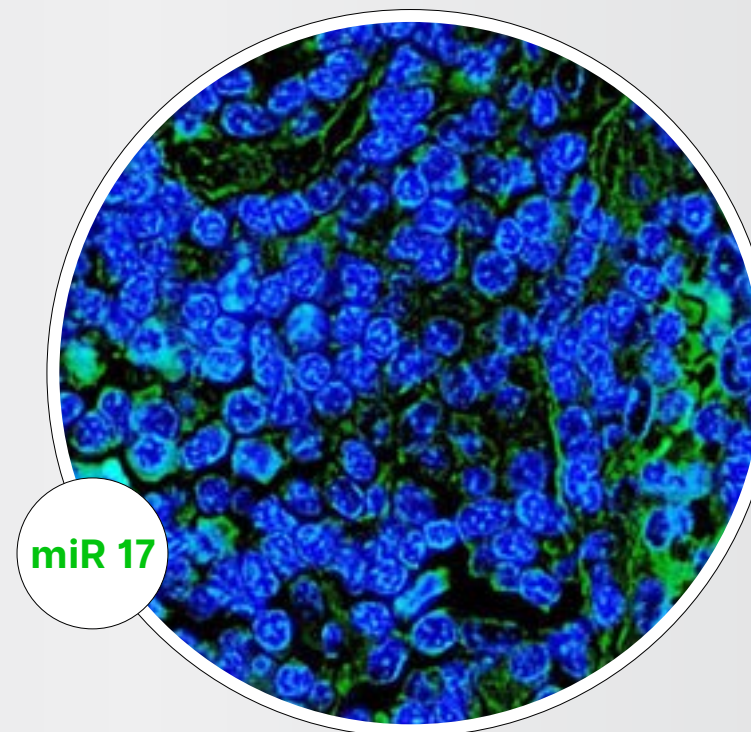




miRNAveu

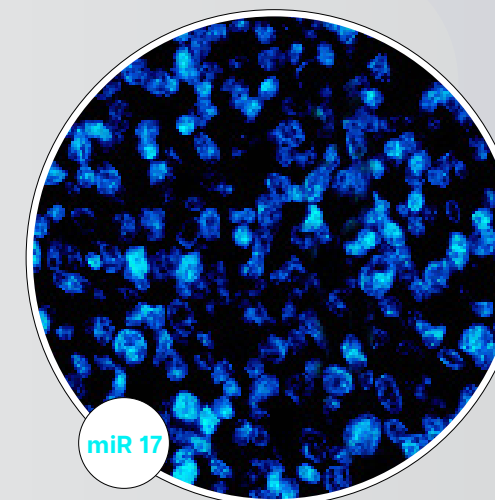
Multiplexing miRNAs

Our miRNA probes portfolio offers over 220 unique miRNA probes designed specifically for identifying cancer of unknown primary, staging and grading cancers, and characterization of poorly differentiated tumors.



miR 17

Breast adenocarcinoma



miR 17

Breast adenocarcinoma

Accelerate your Spatial Biology Research



Omicsveu special purpose spinoff from BioGenex

Connect with us!

