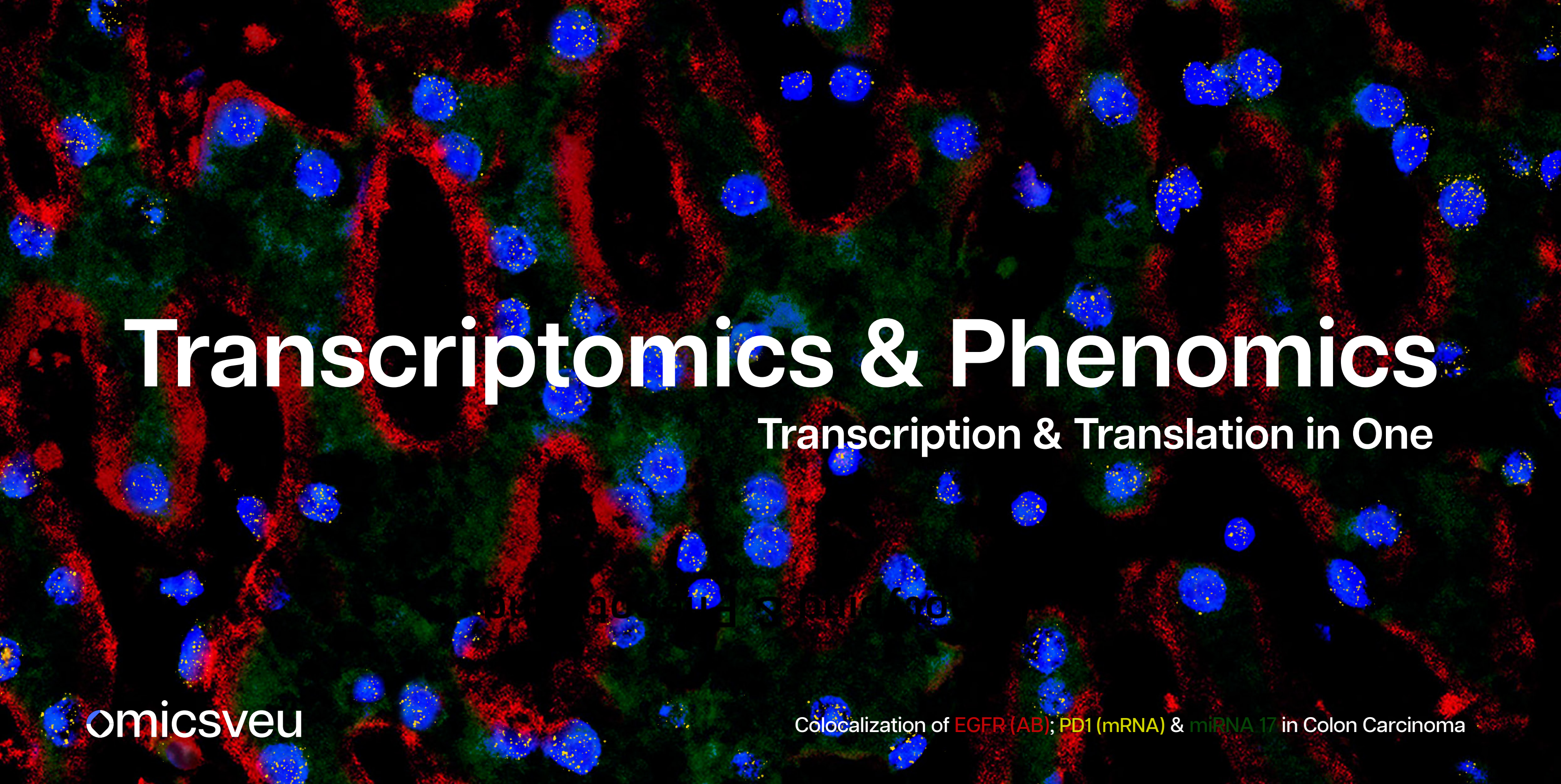




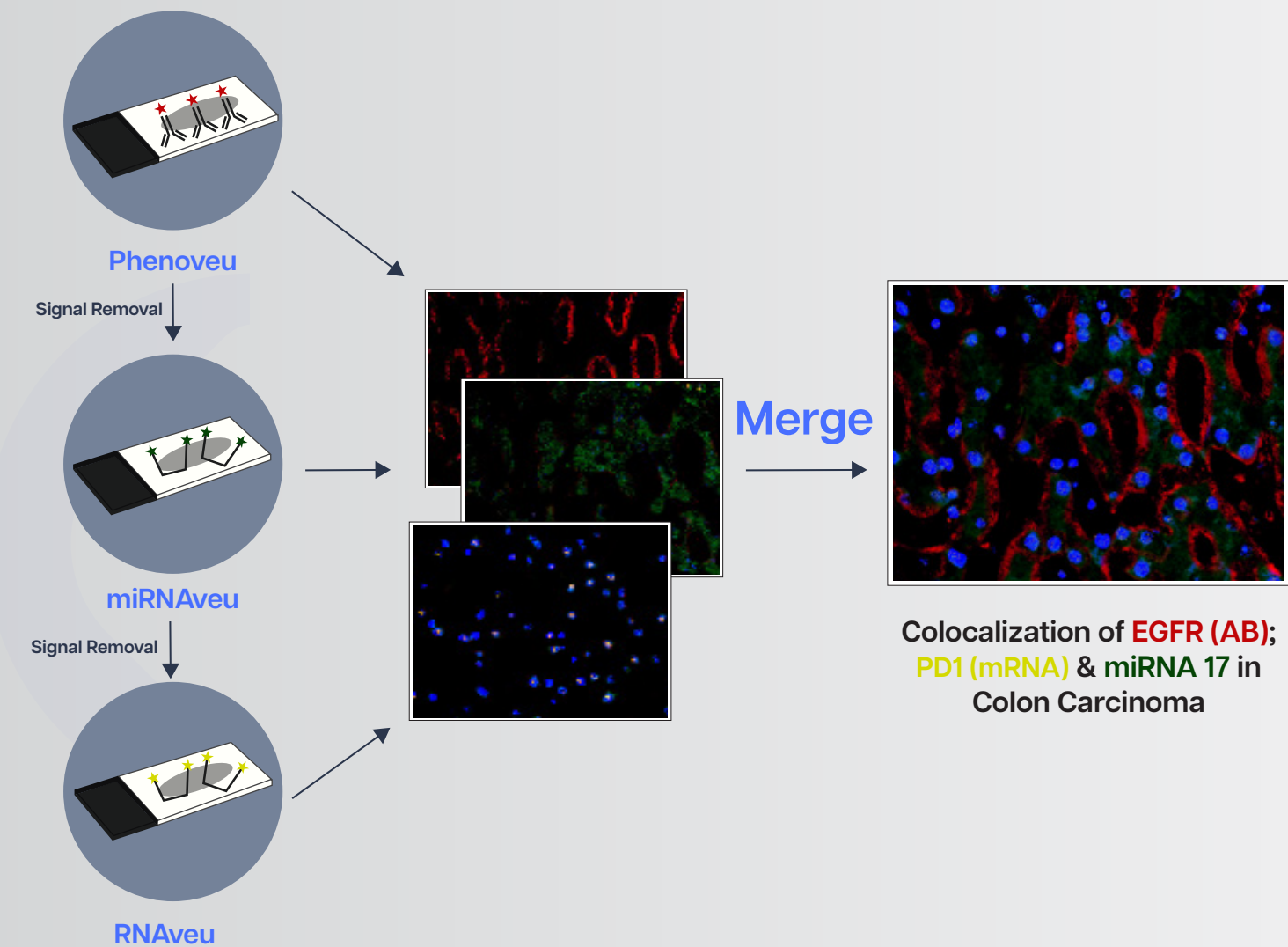
Transcriptomics & Phenomics

Transcription & Translation in One

Dr. J. H. S. & Dr. J. H. S.

omicsveu

Colocalization of EGFR (AB); PD1 (mRNA) & miRNA 17 in Colon Carcinoma



Combinatorial Multiplexing Staining Process

Transcriptomics & Phenomics

Co-detection of protein, mRNA, DNA, and miRNA in the same tissue

Transcriptomics & Phenomics provides an uncomplicated and dependable method for the co-localization and co-detection of protein and nucleic acids within the same tissue section by sequential use of immunofluorescence (IF) and fluorescent in situ hybridization (FISH) techniques.



Provides clean, intense, and crisp stain Images



High Reproducibility, Sensitivity & Specificity



Time-window for single plex and multiplex protocols are between two and four days respectively



Reduced reagent cost

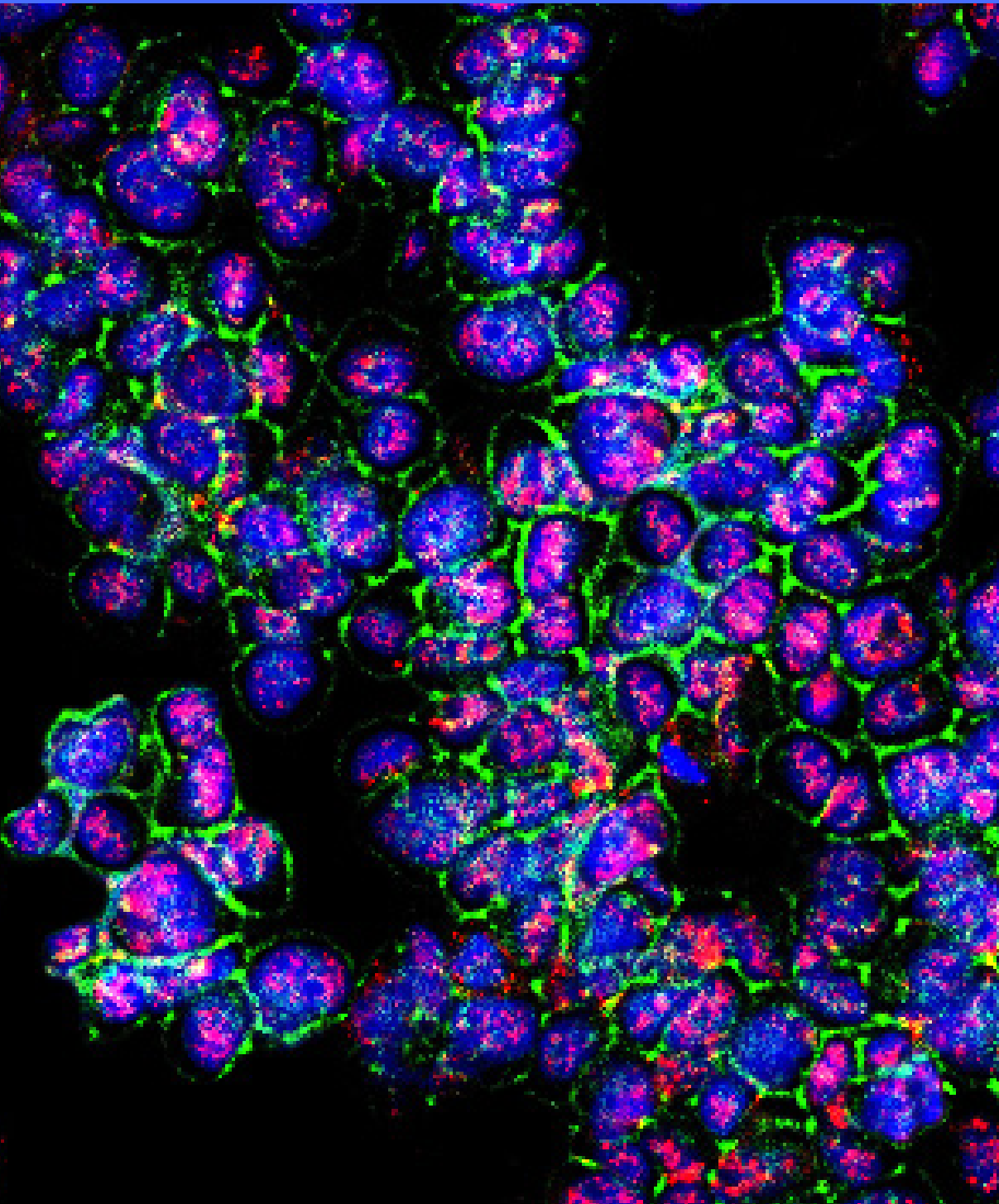
NanoVIP® is a breakthrough automated system which provides an optimized strategy to visualize any FISH, miRNAveu, along with Phenoveu (multiplexing IF) in fixed tissue or cells on a slide-based platform. NanoVIP®'s unique staining system results in intense, clean, crisp, and consistent staining.

Breast Adenocarcinoma

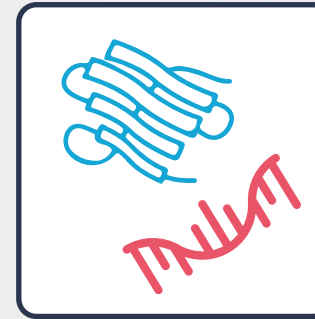
Ki67 protein

HER2 protein

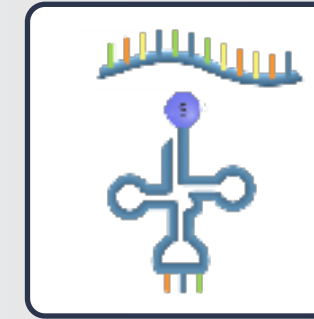
miRNA 21



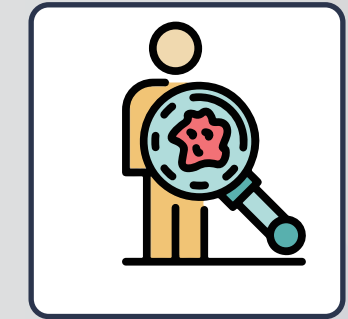
Applications of Transcriptomics & Phenomics



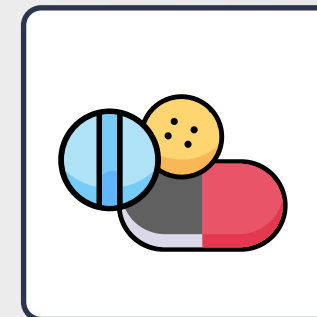
Quantitatively determines the spatial heterogeneity between transcriptomic and proteomic changes by tissue multiplexing



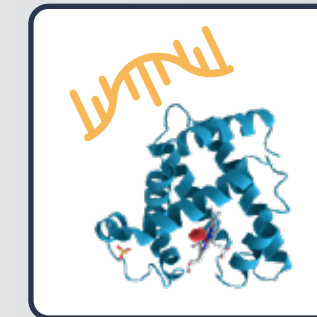
Distinguishes coding and noncoding RNA transcripts for correlation of transcriptional and translational regulation



Targets mRNAs/proteins specifically expressed in a particular tumor for diagnosis and therapy



Tissue specific miRNA/Protein are potential therapeutic targets



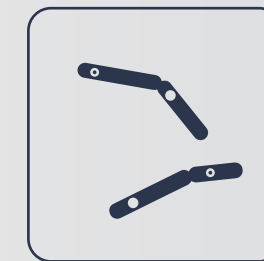
Correlates changes between the protein levels to their corresponding mRNA levels (i.e., while using siRNAs or miRNAs)

NanoVIP® for Transcriptomics & Phenomics

The NanoVIP® system offers a broad range of spatial multiplex multiomics 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. Incorporates staining, imaging on IMC or imaging scanner, removal of coverslip, stripping and prepare for second multiplex run. The system is designed for multiple successive runs.



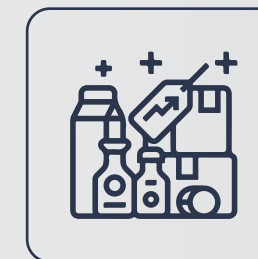
Fully automated
staining system



Ready-to-use
probes



Multiplexing
antibodies



Consumables



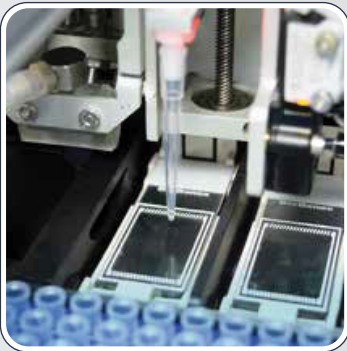
Ready to use
visualization kits

STATE-OF-THE-ART AUTOMATION



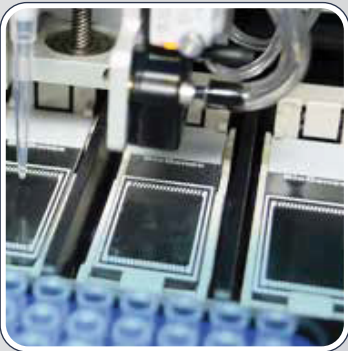
MICRO-CHAMBER

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

Accelerate your Spatial Biology Research



Omicsveu special purpose spinoff from BioGenex

Connect with us!

