merscope ultra

vizgen®

Dive deeper into spatial biology with the MERSCOPE® Ultra platform, Vizgen's latest model in situ spatial imaging system.

Coming H2 2024

Benefit from ultimate flexibility and efficiency without compromising sensitivity as you dive deeper into cellular landscapes. Support for two different flow cell sizes optimizes cost per sample by enabling users to adjust reagent volume based on area imaged. Accelerate your research and discover new frontiers with MERSCOPE Ultra, where every pixel holds the potential for a groundbreaking discovery.

ENGINEERED FOR HIGH-PERFORMANCE AND MAXIMUM INSIGHTS

Flexible workflow

For each experiment, users can select from either a large (FCX-L) or standard (FCX-S) flow cell allowing users to better align reagent consumption with area imaged

Large imageable area

The FCX-L flow cell supports up to 3.0cm^2 imageable area while the FCX-S supports up to 1.25cm^2

Faster imaging area and analysis speeds

Analyze up to 9.0cm^2 per week

Fully compatible

Works with existing MERSCOPE consumables and panels, up to 1000 genes full-custom

ALL THE BENEFITS OF MERSCOPE

Class leading sensitivity

Sub cellular resolution paired with sample clearing reduces background ensuring highest transcript detection

Platform Flexibility

Custom panels, scalable multiplexing, species versatility and data analysis tools that work best for your workflow

High Quality Specificity

Error-robust barcoding and correlation to scRNA-seq provide confidence

MERFISH Chemistry

Enables new applications with high quality results without sacrificing sensitivity or specificity. More than 170 peer-reviewed journals and pre-prints.

Superior cell segmentation

Draw biologically true cell shapes and to accurately localize transcripts to identify cell types

High-Resolution Optics

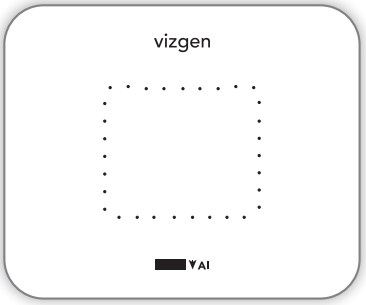
Minimizes optical crowding and allows for accurate measurements in areas of high expression

NOW WITH ULTRA BENEFITS

By providing more, high-quality MERFISH data faster than ever, MERSCOPE Ultra delivers maximum value and biological insights from every sample.

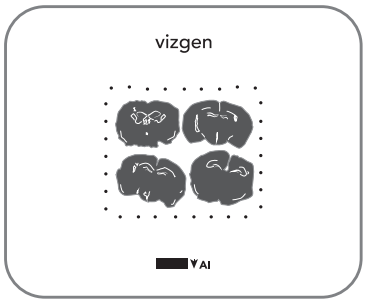
Customize experiments by selecting the desired flow cell size depending on your imaging area needs. Each flow cell is supported by its own MERSCOPE slide (Standard or Large) that is used to collect your sample.

Standard

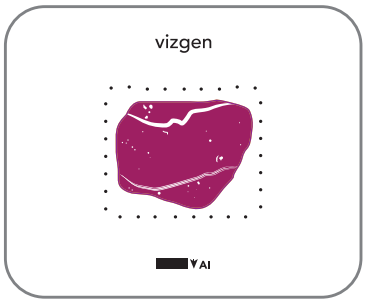


Large

Run samples from larger species and organs in a single experiment, eliminating the need for multiple runs and minimizing wasted tissue.



Up to 4 coronal mouse brain sections on a single slide

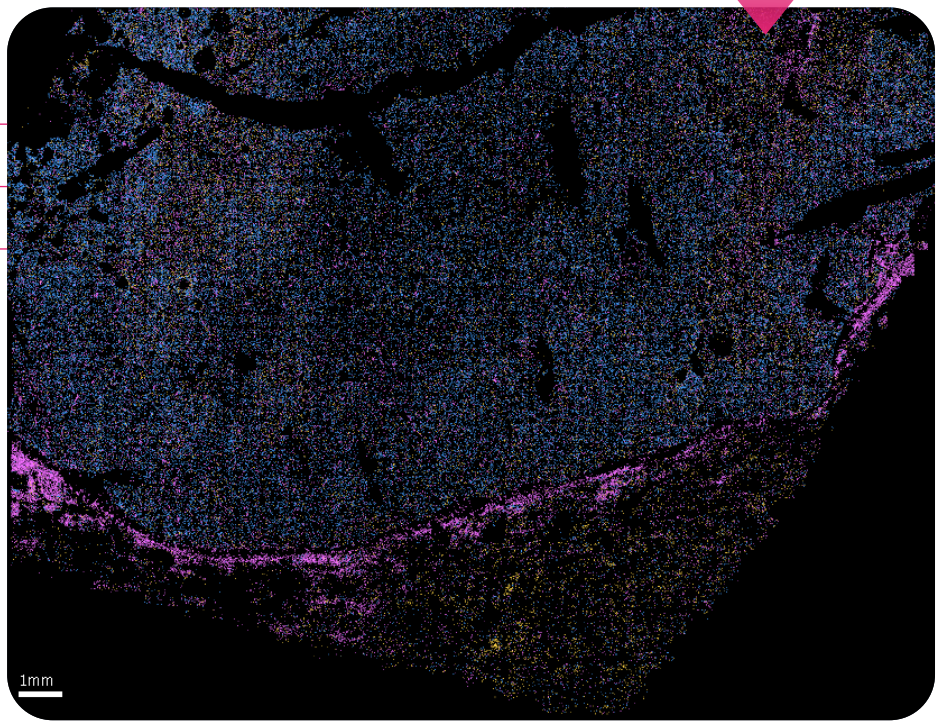


Large, human liver cancer sample

Maximize efficiency and minimize costs by running multiple smaller samples in a single experiment.

Area Imaged	3.0cm^2
Cells Analyzed	2,632,747
Total Transcripts	650,797,038
Avg Transcripts/Cell	153

FFPE Human Liver Cancer sample analyzed with Vizgen's MERSCOPE Immuno-Oncology Panel (500 genes). Genes shown in image are Sox9 (purple), Epcam (blue), Foxp3 (yellow).



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