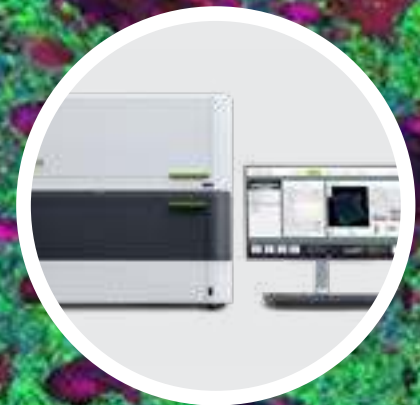


ADVANCED STAINING INSTRUMENTS

BOND RX & NanoString GeoMx DSP

AUTOMATED PROFILING

SPATIAL AND HIGH PLEX PROTEIN AND RNA



Accelerate Your Journey
Imagine The Possibilities

Leica
BIO SYSTEMS

FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES.

HIGH-THROUGHPUT ANALYSIS OF SPATIALLY RESOLVED RNA & PROTEIN

GET MORE INFORMATION FROM ONE SLIDE

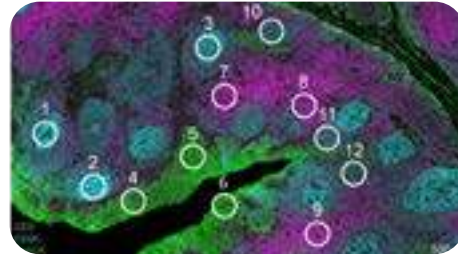
Understanding tissue heterogeneity is critical to answering key biological questions in translational research. The BOND RX and NanoString GeoMx® Digital Spatial Profiler (DSP) workflow brings tissue morphological context and High Plex protein or gene expression profiling - all from a single slide sample.

The GeoMx DSP combines standard immunofluorescence techniques with digital optical barcoding technology to perform highly multiplexed, spatially resolved profiling studies.

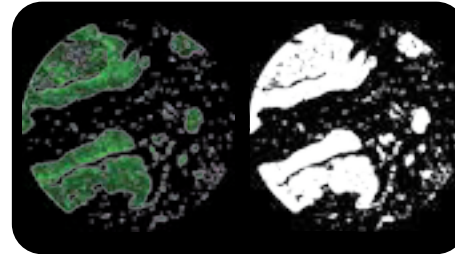
AUTOMATED HIGH PLEX PROFILING

- » Select region to profile by morphology, phenotype, or by individual cell populations
- » Generate whole tissue, 4-color images for profiling
- » Spatially profile over 100 proteins or the whole transcriptome for RNA
- » High-throughput and reproducibility
- » Reduce hand-on time for GeoMx RNA assay to 30 minutes

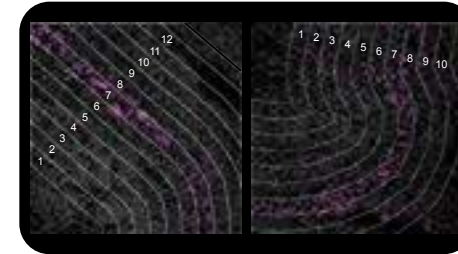
LOCATE YOUR REGIONS OF INTEREST



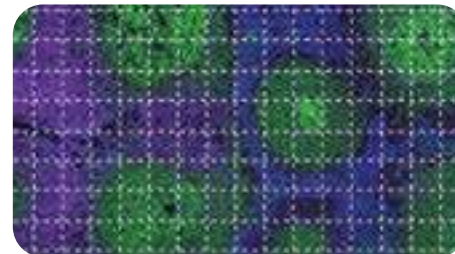
Geometric Profiling:
Profile with any geometric shape to characterize distinct tissue regions



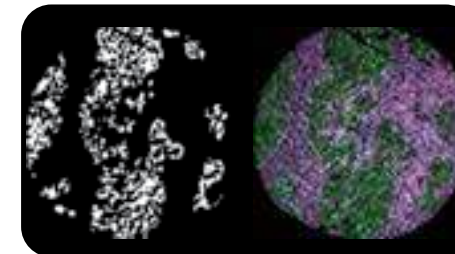
Segment Profiling: Identify and profile distinct biological compartments within a region of interest (ROI)



Contour Profiling:
Evaluate how proximity affects biology



Gridded Profiling:
Perform rigorous spatial mapping using a tunable gridding pattern



Cell Type Specific:
Reveal the function of cell populations guided by cell type specific morphology markers

BOND RX FREEDOM TO DISCOVER

The BOND RX fully automated research stainer from Leica Biosystems provides superior quality and flexibility while enabling the automation of IHC, ISH, and emerging tests.

FLEXIBLE MODULAR DESIGN THAT FITS A RANGE OF APPLICATIONS AND PLEX NEEDS

The NanoString GeoMx RNA and Protein assays are released on the BOND RX and BOND RX™ and their modular nature provides flexibility and supports a range of research needs.

The BOND research systems complement the DSP technology by reducing hands-on time to process Formalin-Fixed Paraffin-Embedded (FFPE), Fixed Frozen or Fresh Frozen samples.

BOND RX and GeoMx DSP Workflow

1 STAIN SLIDE



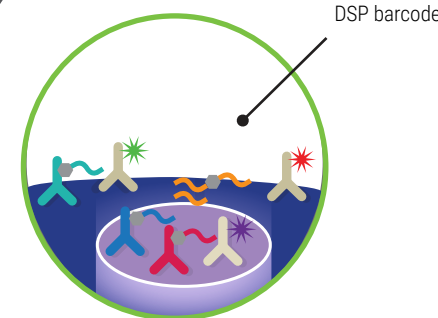
Stain targeted areas with fluorescent antibodies for ROI selection and oligo-tagged antibodies or ISH probes for spatial profiling.

2 SELECT ROI



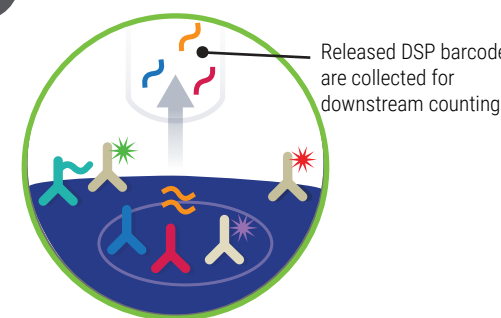
The intuitive GeoMx DSP interface allows users to select regions of interest of virtually any shape or size.

3 ILLUMINATE ROI



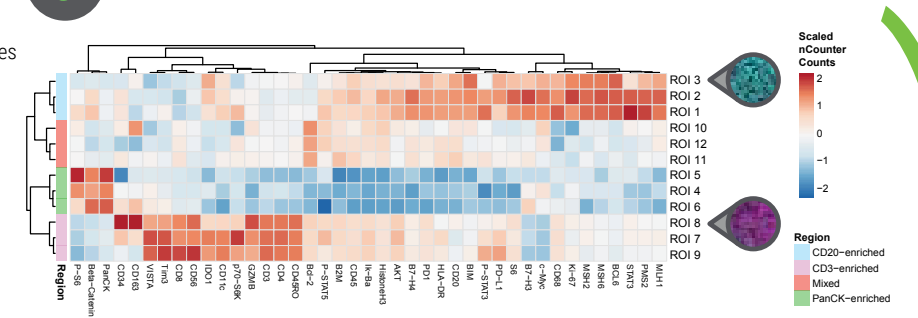
Every region of interest is sequentially exposed to UV light to decouple the DSP barcodes from the profiling reagents.

4 ASPIRATE OLIGOS



Decoupled DSP barcodes are rapidly aspirated using a microcapillary without touching the sample, thereby leaving the sample unaltered.

5 COUNT BARCODES



The DSP barcodes are hybridized to NanoString barcodes and quantified on the nCounter® platform or sequenced on a next generation sequencer.

AVAILABLE FROM LEICA BIOSYSTEMS

BOND Research Detection System	1 kit	DS9455
BOND Research Detection System 2	1 kit	DS9777
BOND Aspirating Probe Cleaning System	1 system, 15 cleans	CS9100
BOND Titration Kit	10 containers, 50 inserts	OPT9049
BOND Open Containers (7 mL)	10 pack	OP79193
BOND Open Containers (30 mL)	10 pack	OP309700

AVAILABLE FROM NANOSTRING

GeoMx™ Digital Spatial Profiler Analysis Instrument		
Human Protein Core for nCounter		
GeoMx Immune Cell Profiling Panel	GMX-PROCO-NCT-HICP-12	
GeoMx Neural Cell Profiling Panel	GMX-PROCO-NCT-HNCP-12	
Human Protein Module for nCounter		
GeoMx IO Drug Target Panel	GMX-PROMOD-NCT-HIODT-12	
GeoMx Immune Activation Status Panel	GMX-PROMOD-NCT-HIAS-12	
GeoMx Immune Cell Typing Panel	GMX-PROMOD-NCT-HICT-12	
GeoMx Pan-Tumor Panel	GMX-PROMOD-NCT-HPT-12	
GeoMx Alzheimer's Pathology Panel	GMX-PROMOD-NCT-HADP-12	
GeoMx Parkinson's Pathology Panel	GMX-PROMOD-NCT-HPDP-12	
Mouse Protein Core for nCounter		
GeoMx Immune Cell Profiling Panel	GMX-PROCO-NCT-MICP-12	
Mouse Protein Module for nCounter		
GeoMx IO Drug Target Panel	GMX-PROMOD-NCT-MIODT-12	
Human RNA Core for nCounter		
GeoMx Immune Pathways Panel	GMX-RNA-NCT-HIP-12	
Mouse Protein Compatible Morphology Kit		
GeoMx Solid Tumor TME	GMX-PRO-MORPH-MST-12	
GeoMx Melanoma TME	GMX-PRO-MORPH-MMEL-12	
GeoMx Nuclear Stain	GMX-MORPH-NUC-12	

AVAILABLE FROM LEICA BIOSYSTEMS

BOND Universal Covertiles	160 pack	S21.4611
BOND Epitope Retrieval Solution 1	1L (RTU) each	AR9961
BOND Epitope Retrieval Solution 2	1L (RTU) each	AR9640
BOND Dewax Solution	1L (RTU)	AR9222
BOND Wash Solution (10x concentrate)	1L	AR9590

AVAILABLE FROM NANOSTRING

Human Protein Compatible Morphology Kit		
GeoMx Solid Tumor TME	GMX-PRO-MORPH-HST-12	
GeoMx Melanoma TME	GMX-PRO-MORPH-HMEL-12	
GeoMx Alzheimer's	GMX-PRO-MORPH-HAD-12	
GeoMx Parkinson's	GMX-PRO-MORPH-HPD-12	
Human RNA Compatible Morphology Kit		
GeoMx Solid Tumor TME	GMX-RNA-MORPH-HST-12	
GeoMx Melanoma TME	GMX-RNA-MORPH-HMEL-12	
General		
Human Cancer Transcriptome Atlas, Automated	GeoMx NGS RNA AutoCTA Hs	
Human Wole Transcriptome Atlas, Automated	GeoMx NGS RNA AutoWTA Hs	
Mouse Whole Transcriptome Atlas, Automated	GeoMx NGS RNA AutoWTA Mm	

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