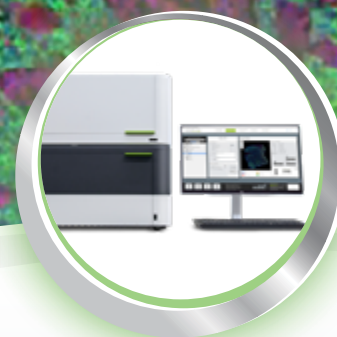


BOND RX & NanoString GeoMx DSP

**AUTOMATED PROFILING
SPACIAL AND HIGH PLEX
PROTEIN AND RNA**



Advancing Cancer Diagnostics
Improving Lives

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

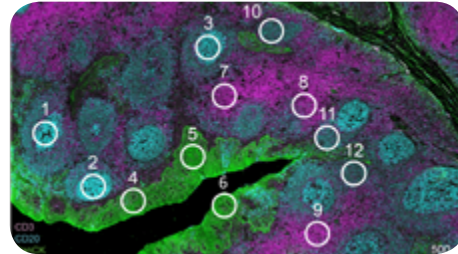
Understanding tissue heterogeneity is critical to answering key biological questions in translational research. The BOND RX and NanoString GeoMx Digital Spatial Profiler (DSP) workflow brings tissue morphological context and High Plex protein or gene expression profiling - all from a single slide sample.

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

AUTOMATED HIGH PLEX PROFILING

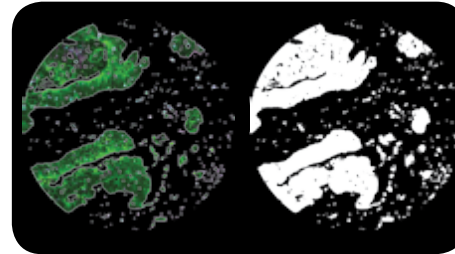
- » Select areas of interest for profiling by morphology, phenotype or by individual cell populations
- » Whole tissue, four-color image at single cell resolution
- » Digital profiling data for up to 96 protein or 1,000's of RNA targets
- » High-throughput and reproducibility

LOCATE YOUR REGIONS OF INTEREST



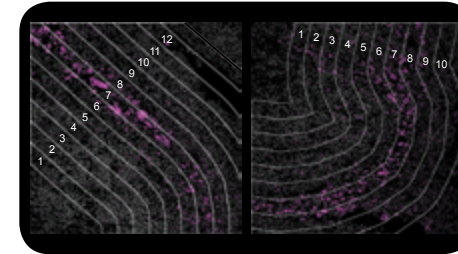
Geometric Profiling:

Profile standardized geometric shapes across distinct tissue regions



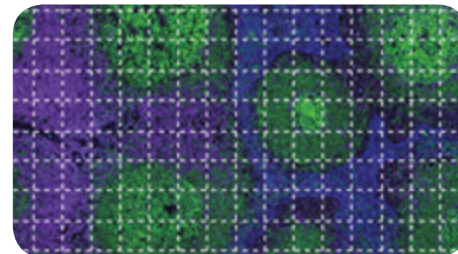
Segment Profiling:

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



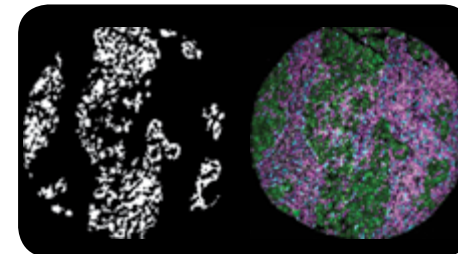
Contour Profiling:

Evaluate the how proximity affects biological response around a central structure



Gridded Profiling:

Perform deep spatial mapping using a tunable gridding pattern



Rare Cell Profiling:

Reveal the function of distinct cell populations with cell type specific morphology markers guiding ROI selection

BOND RX FREEDOM TO DISCOVER

The BOND RX fully automated research stainer from Leica Biosystems provides superior quality and flexibility whilst 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 preserving previous samples with non-destructive processing.

BOND RX and GeoMx DSP Workflow

1 STAIN SLIDE



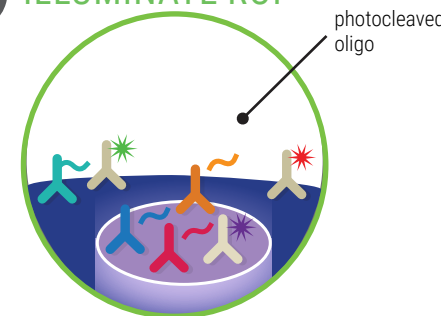
Stain targeted areas with fluorescent antibodies for ROI selection and oligo-tagged antibodies or ISH probes for spatial profiling.

2 SELECT ROI



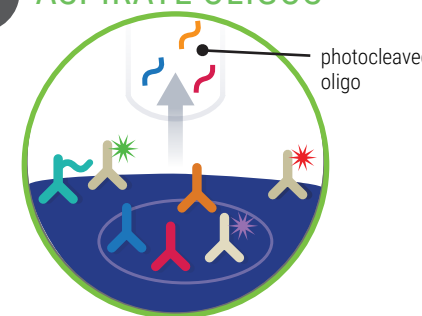
The intuitive GeoMx DSP interface allows users to select regions of interest of virtually any shape or size.

3 ILLUMINATE ROI



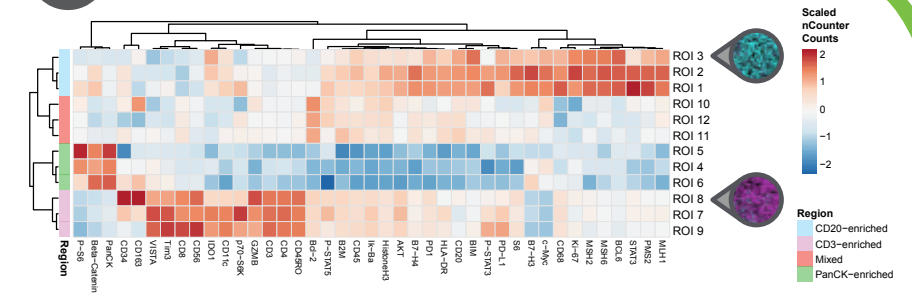
Every region of interest is sequentially exposed to UV light to decouple the oligonucleotides from the profiling reagents.

4 ASPIRATE OLIGOS



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

5 COUNT BARCODES



The oligonucleotides are hybridized to NanoString barcodes and quantified on the nCounter® platform.

LeicaBiosystems.com

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 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

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-HIOTD-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-MIOTD-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 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	
GeoMx Protein Slide Prep Kit for FFPE	GMX-PREP-PRO-FFPE-12
GeoMx RNA Slide Prep Kit for FFPE	GMX-PREP-RNA-FFPE-12
GeoMx Hyb Code Pack: Protein	GMX-PRO-HYB-96
GeoMx Hyb Code Pack: RNA	GMX-RNA-HYB-96
GeoMx DSP Instrument Buffer Kit	GMX-DSP-BUFF-KIT
GeoMx DSP Collection Plate	GMX-DSP-COLL-PLT
nCounter Master Kit	NAA-AKIT-012 NAA-AKIT-048 NAA-AKIT-192
nCounter SPRINT™ Reagent Pack	SPRINT-REAG-KIT

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