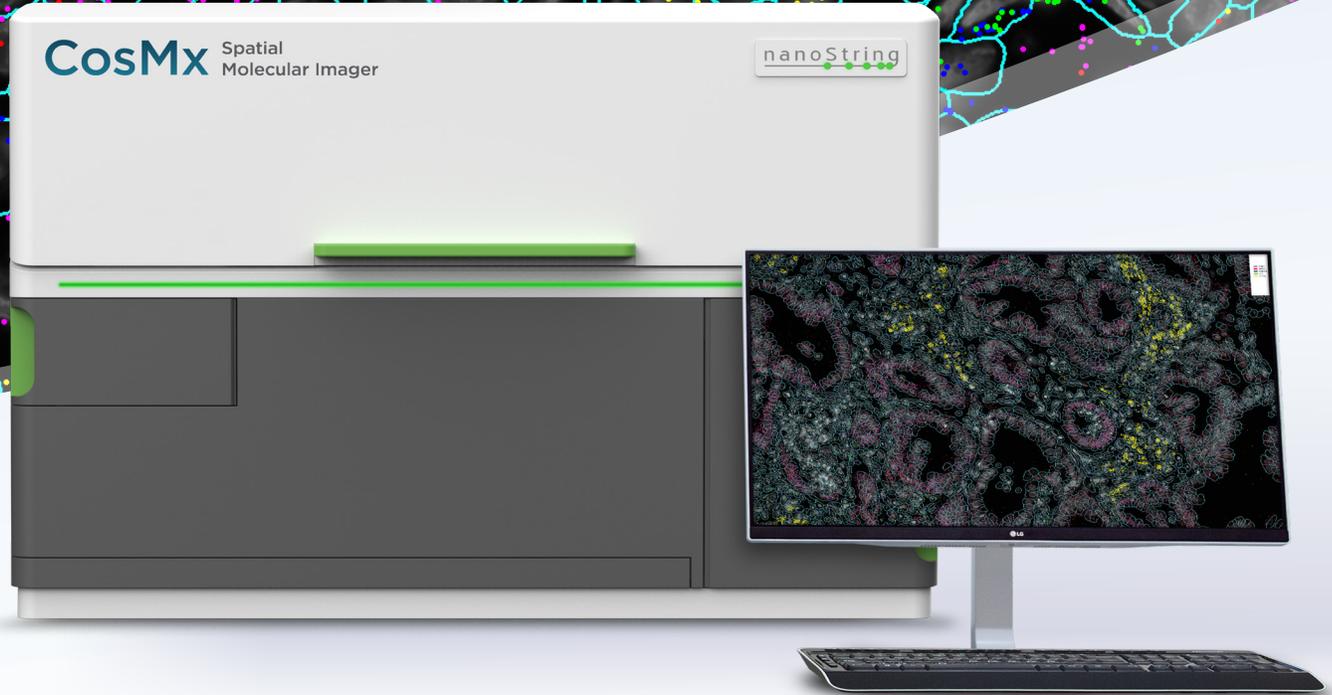


CosMx™

Spatial Molecular Imager

The First Fully-Integrated Single-Cell
Spatial Biology Solution



nanosttring.com

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

nanosttring®

CosMx™ SMI

Elevate your single-cell research

Understanding different cell types, how cells behave with one another, and their purpose enhances our ability to interpret biology and disease. The CosMx Spatial Molecular Imager (SMI) allows researchers to comprehensively map single cells in their native environment and extract deeper biological insights from a single experiment.

An Unmatched Single-Cell Spatial Solution

High Plex Panels

More cell types, cell states and biological pathways

High Resolution

Single-cell analysis at subcellular resolution

Multiomic

One system for RNA and protein

Simple and Flexible

Easy-to-use workflow with customizable panels and scan area

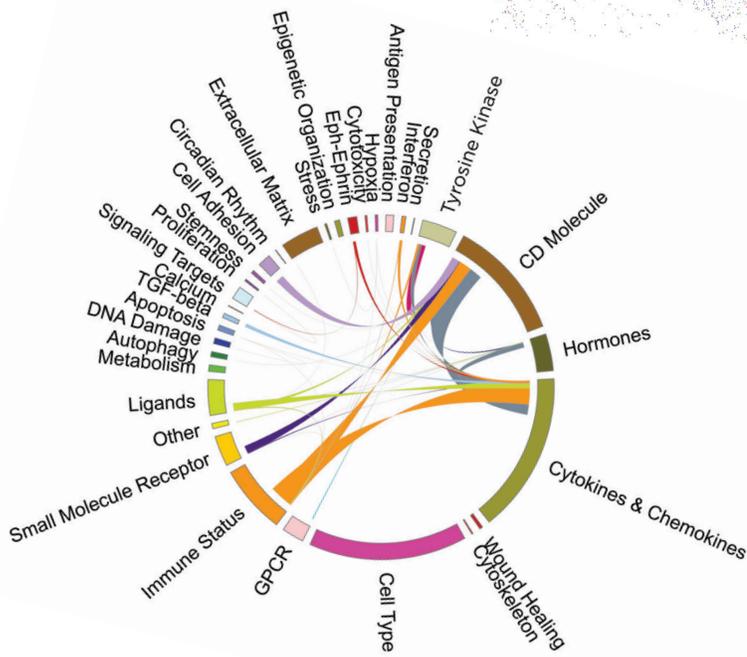
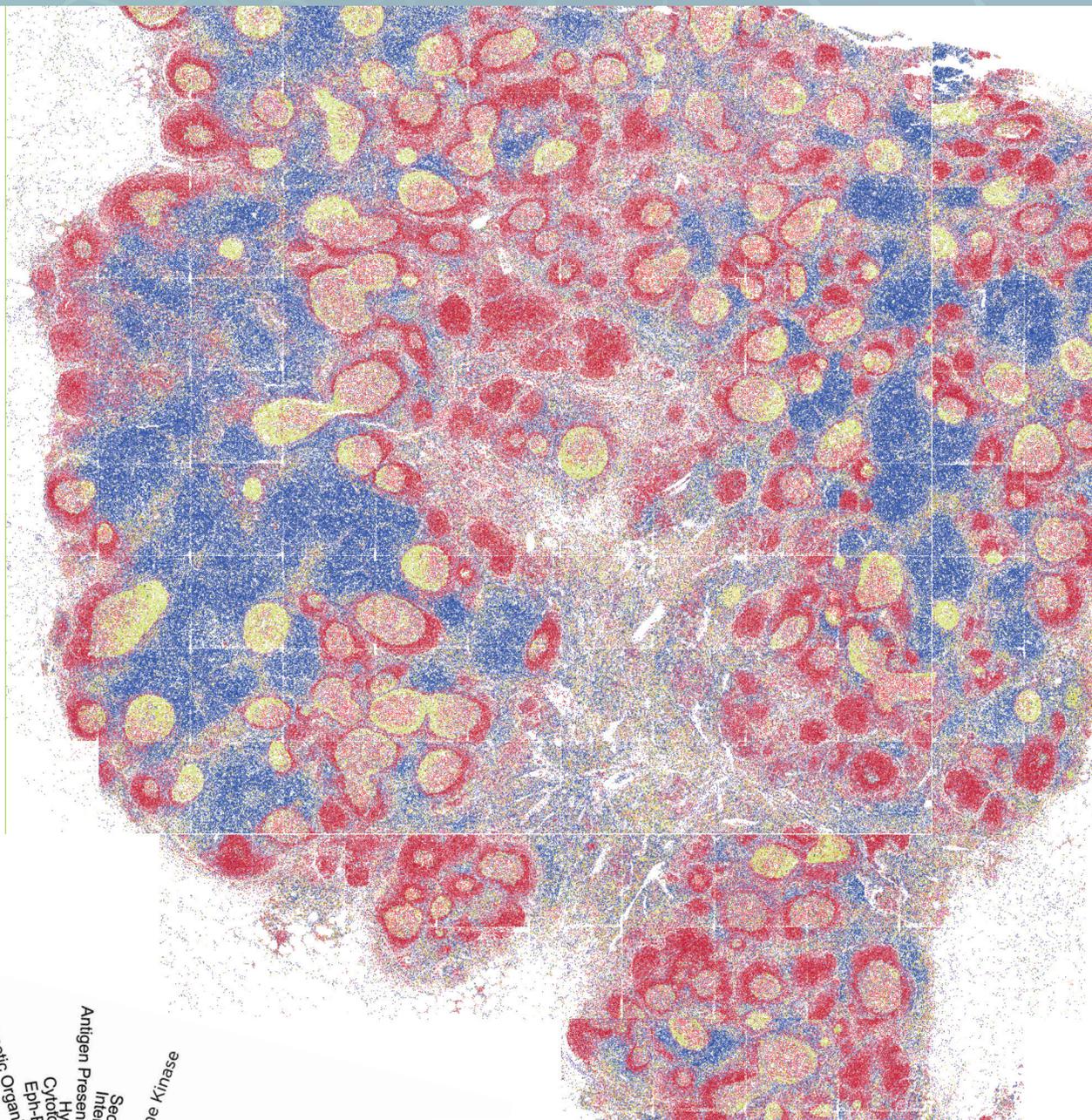
Any Sample Type

Real-world FFPE, fresh frozen, TMA, organoids and more

AtoMx™ Spatial Informatics Platform

An integrated informatics solution, AtoMx SIP enables scalable data analysis, storage, and sharing

- 1mm
- activated T cell
 - cd141-positive mDC
 - cd1c-positive mDC
 - cd4-positive T cell
 - cd8-positive T cell
 - classical monocyte
 - DZ B cell
 - endothelial cell
 - GC T cell
 - innate lymphoid cell
 - intermediate monocyte
 - lymph vessels
 - LZ B cell
 - macrophage
 - mantle B cell
 - mast cell
 - mature NK T cell
 - memory B cell
 - naive B cell
 - NK cell
 - NK T cell
 - pDC
 - plasma cell
 - regulatory T cell
 - stromal cell
 - T cell
 - T follicular helper cell



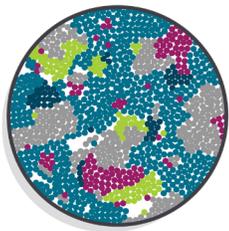
High Plex Imaging

CosMx SMI delivers ultra high plex technology to image and quantify 1000 RNA and 64 Protein targets at single-cell resolution, enabling cell typing and pathway analysis to resolve cell state, cell function, cell-cell interactions and highly informative cell signaling.

Spatial Applications

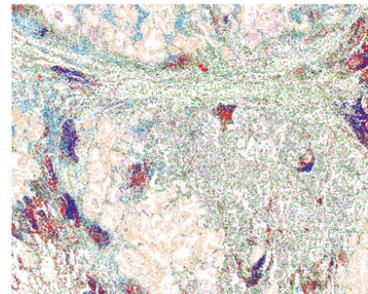
Reveal unique biological insights

Single-cell data generated from intact fresh frozen (FF) or FFPE tissues using the CosMx Spatial Molecular Imager reveals deeper biological insights from a single experiment.

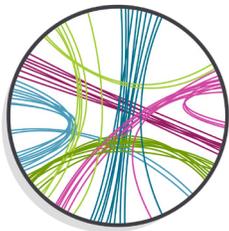


Cell Atlasing / Cell Typing

Discover and map cell types using expression profiles of known RNA and protein targets

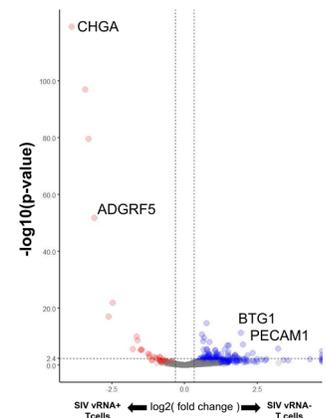
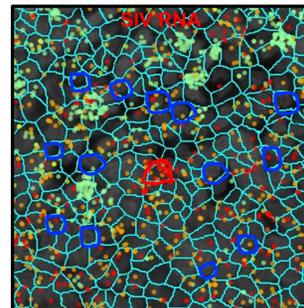


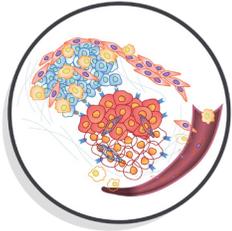
- B-cell
- endothelial
- fibroblast
- macrophage
- mast
- mDC
- monocyte
- neutrophil
- NK
- pDC
- plasmablast
- T CD4 memory
- T CD4 naive
- T CD8 memory
- T CD8 naive
- Treg
- epithelial
- tumor



Biomarker Discovery

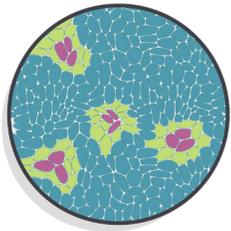
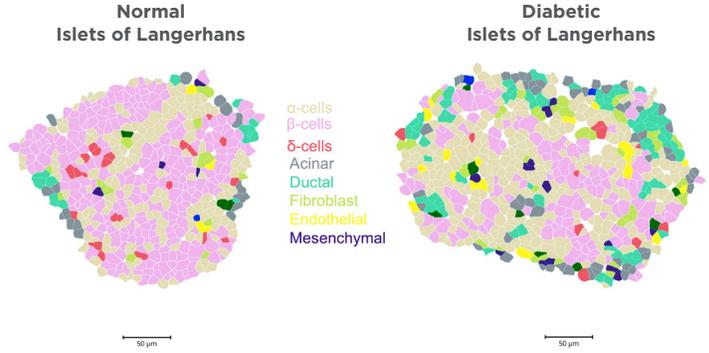
Reveal differential gene expression and pathways in the same cell types depending on their spatial location





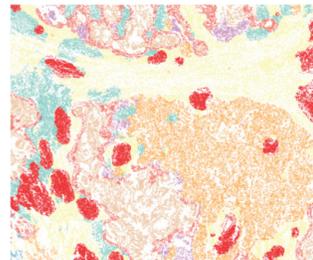
Disease State

Visualize and quantify molecular (RNA / protein) and cellular organizational changes in a tissue

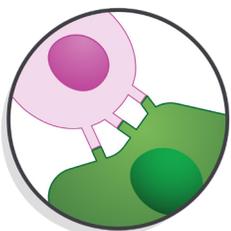


Tissue Microenvironment

Understand cellular neighborhoods by examining individual cells and their interacting neighboring cells

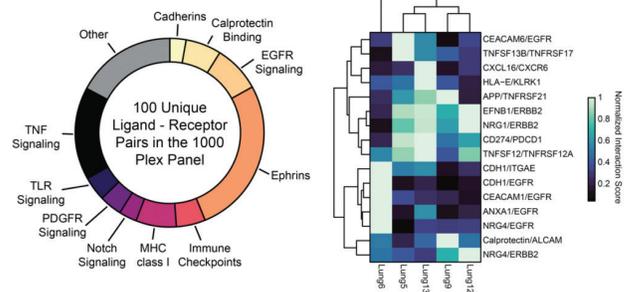


- plasmablast-enriched stroma
- stroma
- lymphoid structure
- tumor-stroma boundary
- immune
- myeloid-enriched stroma
- tumor interior
- neutrophils
- macrophages
- plasmablasts



Ligand-Receptor Interaction

Analyze expression and interactions of up to 100 classic ligand-receptor pairs between interacting cells



Easy to Use

Complete Sample to Insight Solution



Simple Sample Preparation

A fast and easy-to-use workflow

Automated Imaging

Robust single molecule *In Situ* hybridization chemistry

Integrated Data Analysis

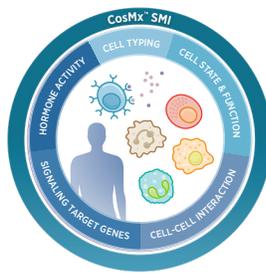
Comprehensive visualization and data analysis, scalable compute and storage with easy data sharing

Panel Assays

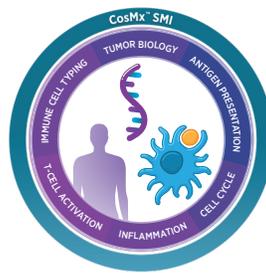
Flexible options to cover your research needs



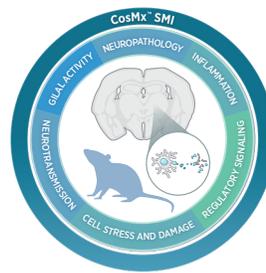
CosMx™ Custom Solutions Panel



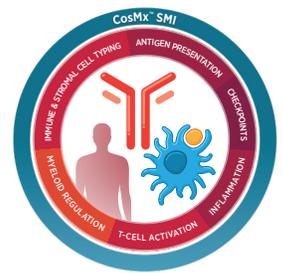
CosMx™ Human Universal Cell Characterization Panel (RNA, 1000 Plex)



CosMx™ Human Immuno-oncology Panel (RNA, 100 Plex)



CosMx™ Mouse Neuroscience Panel (RNA, 1000 Plex)



CosMx™ Human Immuno-oncology Panel (Protein, 64 Plex)

From Data to Insight

Introducing AtoMx™ Spatial Informatics Platform

A complete cloud-based spatial biology informatics solution for fast and secure analysis and visualization of CosMx data anytime, anywhere.

Complete

Integrated spatial informatics solution for CosMx SMI and GeoMx® DSP.

Simple

No coding or scripting experience necessary to use prebuilt analysis pipelines.

Scalable

Cloud-based platform hosted on AWS enables scalable compute and storage to fit experimental needs.

Secure

PCI-DSS, HIPAA/HITECH, FedRAMP, GDPR, FIPS 140-2, and NIST 800-171 compliant.

Flexible Modify existing pipelines or modules and create custom modules to analyze data.

AtoMx Analysis Modules

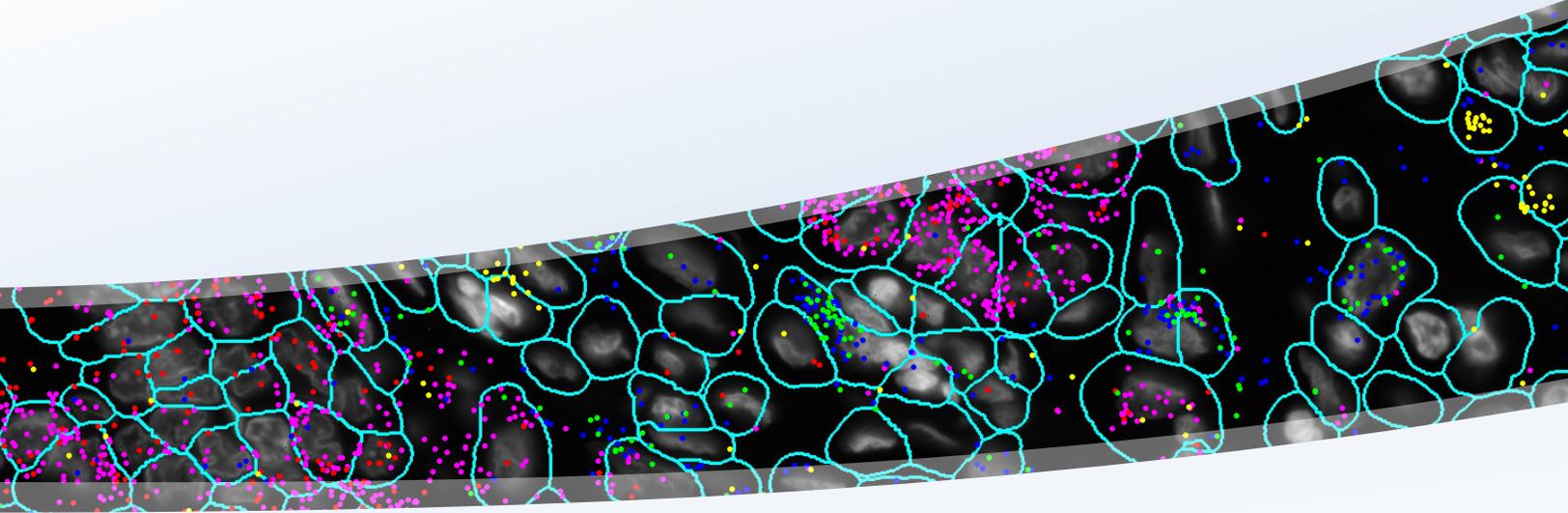


Foundational Analysis Modules	Spatial Analysis Modules	Analysis Pipeline	Custom Analysis Modules
QC	Ligand-Receptor	Foundational - RNA	User-Defined
Normalization	Nearest Neighbor	Foundational - Protein	
UMAP	Spatial Network		
Cell Typing	Cell Proximity Analysis		
PCA	Differential Expression		
Spatial Clustering			



Instrument Information

Product	Description	Catalog Number
CosMx Spatial Molecular Imager	CosMx Spatial Molecular Imager Instrument. Includes 1 year manufacturers warranty.	CMX-SMI-1Y
	CosMx Spatial Molecular Imager Instrument. Includes 1 year manufacturers warranty and 1 year service contract.	CMX-SMI-2Y
	CosMx Spatial Molecular Imager Instrument. Includes 1 year manufacturers warranty and 2 year service contract.	CMX-SMI-3Y
	CosMx Spatial Molecular Imager Instrument. Includes 1 year manufacturers warranty and 3 year service contract.	CMX-SMI-4Y
	CosMx Spatial Molecular Imager Instrument. Includes 1 year manufacturers warranty and 4 year service contract.	CMX-SMI-5Y



For more information, please visit [nanostring.com](https://www.nanostring.com)

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