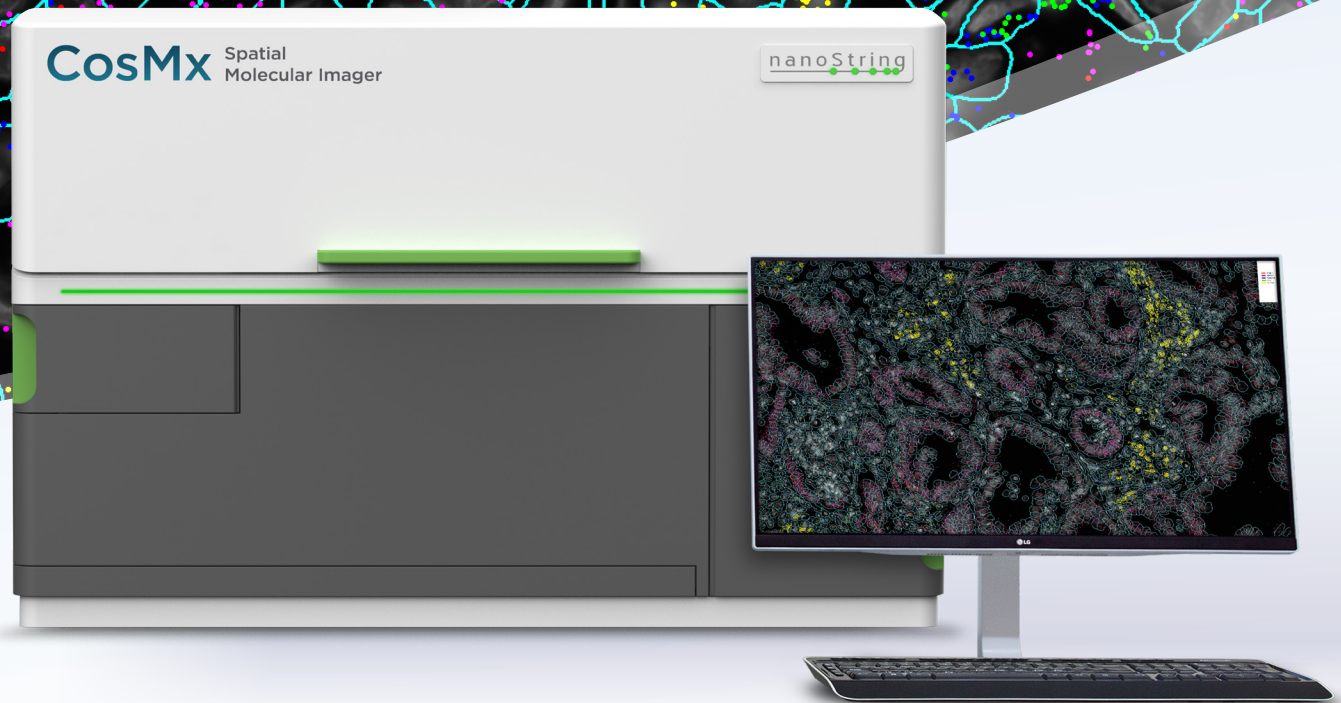


# CosMx<sup>TM</sup>

## Spatial Molecular Imager

The First Fully-Integrated Single-Cell  
Spatial Biology Solution



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nanosttring

# CosMx™ SMI

## Elevate your single-cell research

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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

#### Multimodal

One system for RNA and protein

#### Simple and Flexible

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

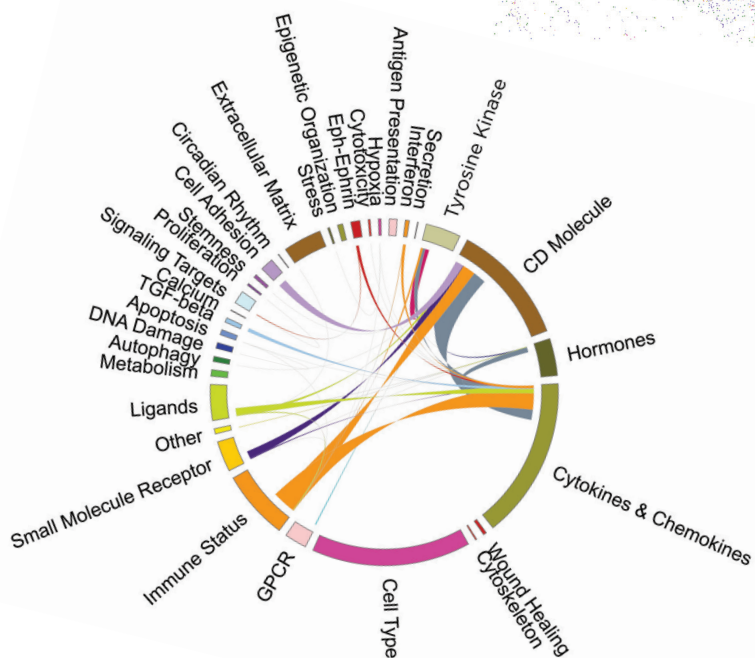
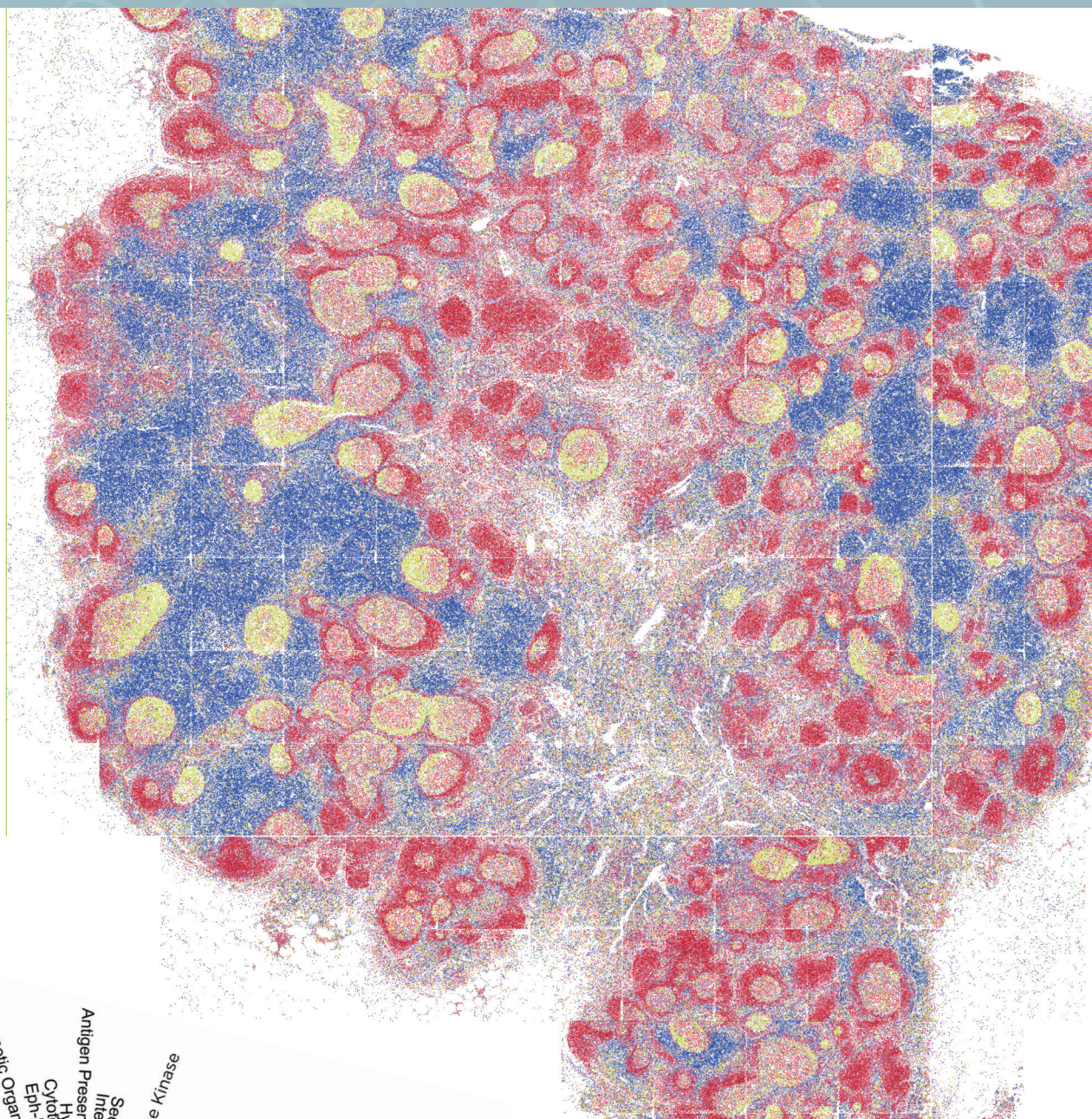
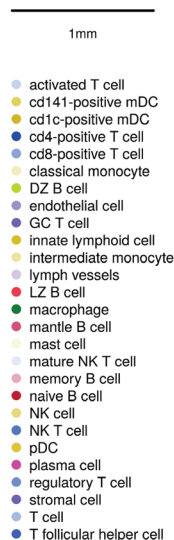
#### Any Sample Type

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





## High Plex Imaging

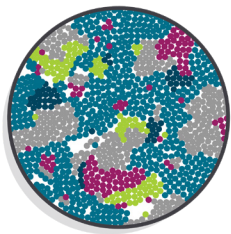
CosMx SMI delivers ultra high plex technology to image and quantify 1000 RNA and 64 Protein targets at single-cell resolution, enabling cell typing and pathway analysis to resolve cell state, cell function, cell-cell interactions and highly informative cell signaling.



# Spatial Applications

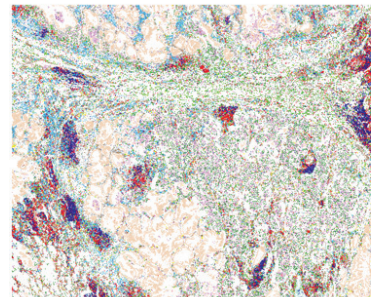
Reveal unique biological insights

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.

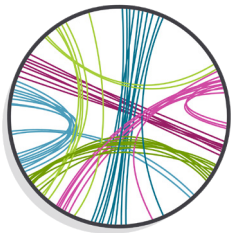


## Cell Atlasing / Cell Typing

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

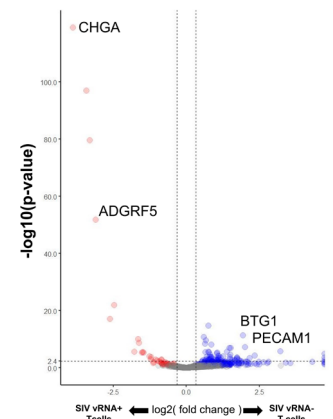
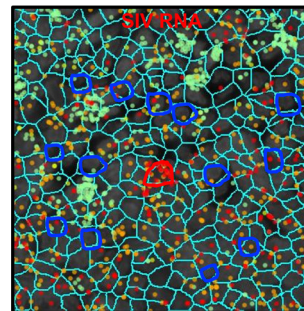


- B-cell
- endothelial
- fibroblast
- macrophage
- mast
- mDC
- monocyte
- neutrophil
- NK
- pDC
- plasmablast
- T CD4 memory
- T CD4 naive
- T CD8 memory
- T CD8 naive
- Treg
- epithelial
- tumor

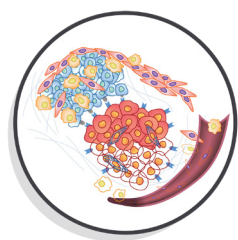


## Biomarker Discovery

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

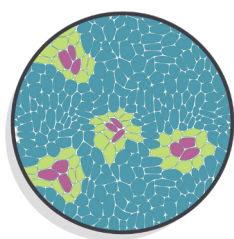
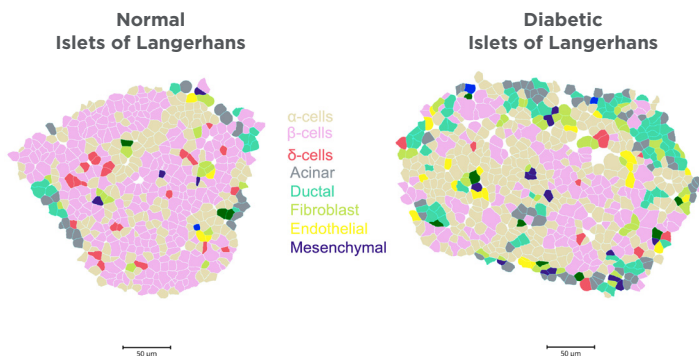






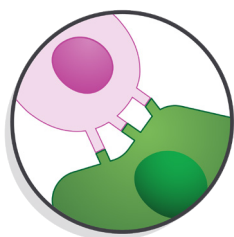
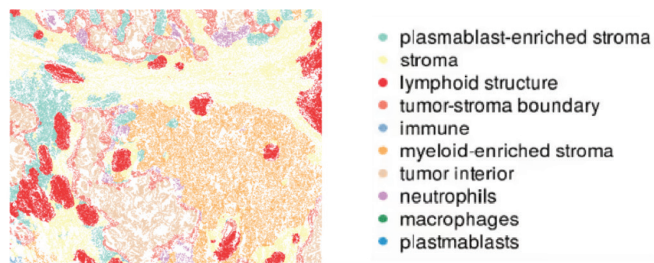
### Disease State

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



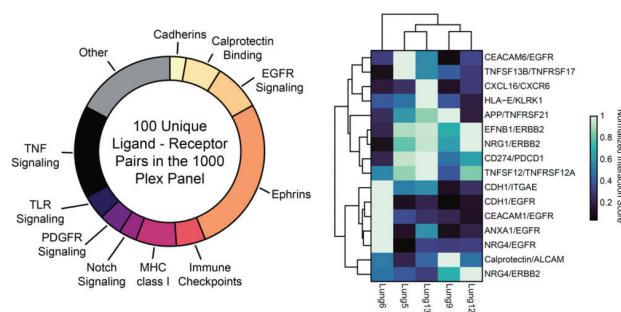
### Tissue Microenvironment

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



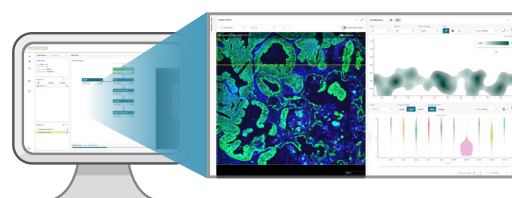
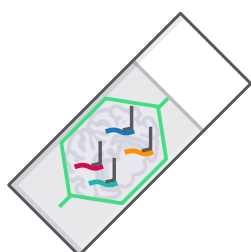
### Ligand-Receptor Interaction

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



# Easy to Use

## Complete Sample to Insight Solution



1

2

3

### Simple Sample Preparation

A fast and easy-to-use workflow

### Automated Imaging

Robust single molecule *In Situ* hybridization chemistry

### Integrated Data Analysis

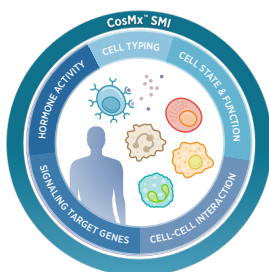
Comprehensive visualization and data analysis, scalable compute and storage with easy data sharing

## Panel Assays

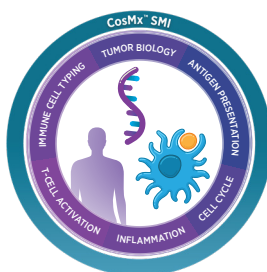
Flexible options to cover your research needs



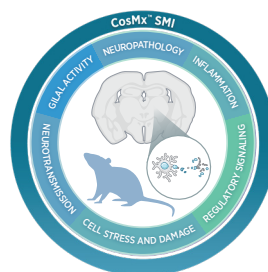
CosMx™ Custom Solutions Panel



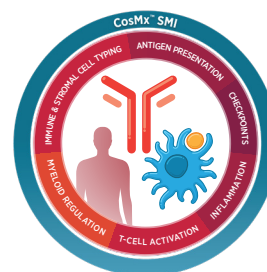
CosMx™ Human Universal Cell Characterization Panel (RNA, 1000 Plex)



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

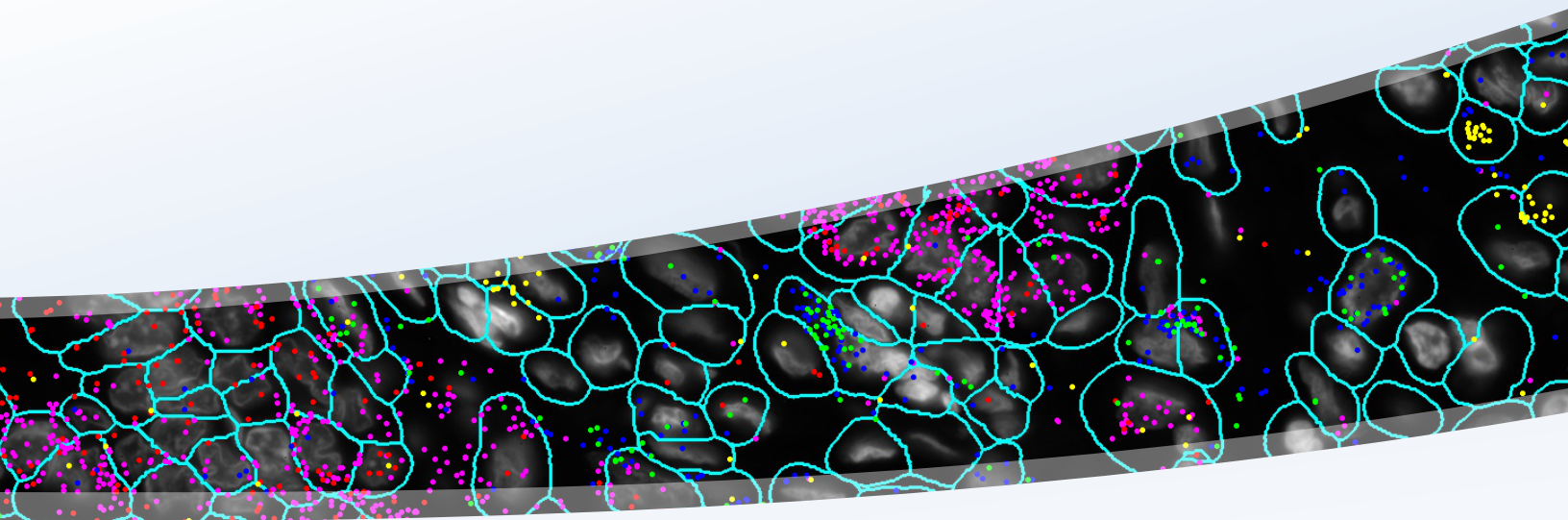


Foundational Analysis Modules	Spatial Analysis Modules	Analysis Pipeline	Custom Analysis Modules
QC	Ligand-Receptor	Foundational – RNA	User-Defined
Normalization	Nearest Neighbor	Foundational – Protein	
UMAP	Spatial Network		
Cell Typing	Cell Proximity Analysis		
PCA	Differential Expression		
Spatial 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 [nanosttring.com](https://nanosttring.com)

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