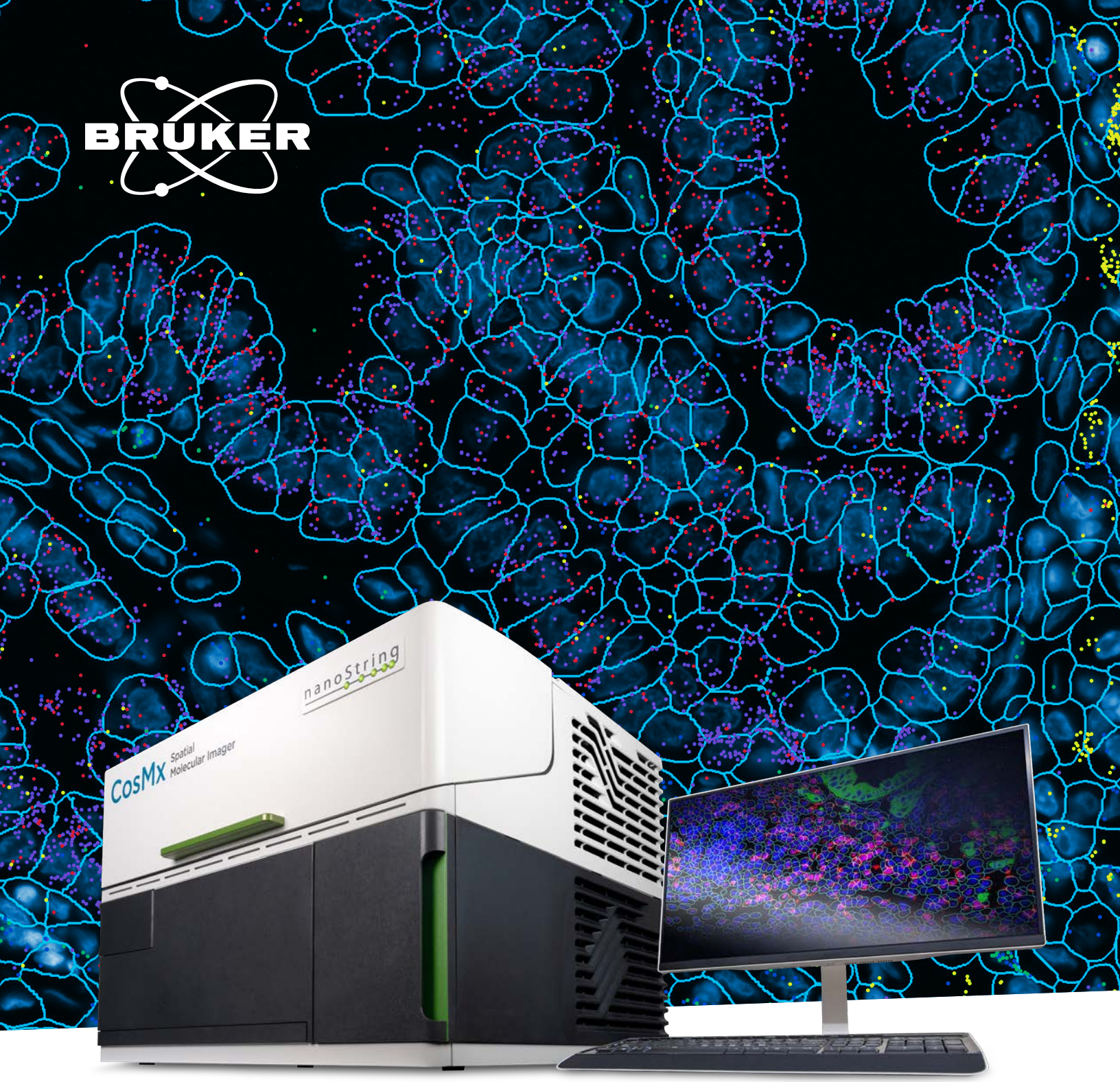
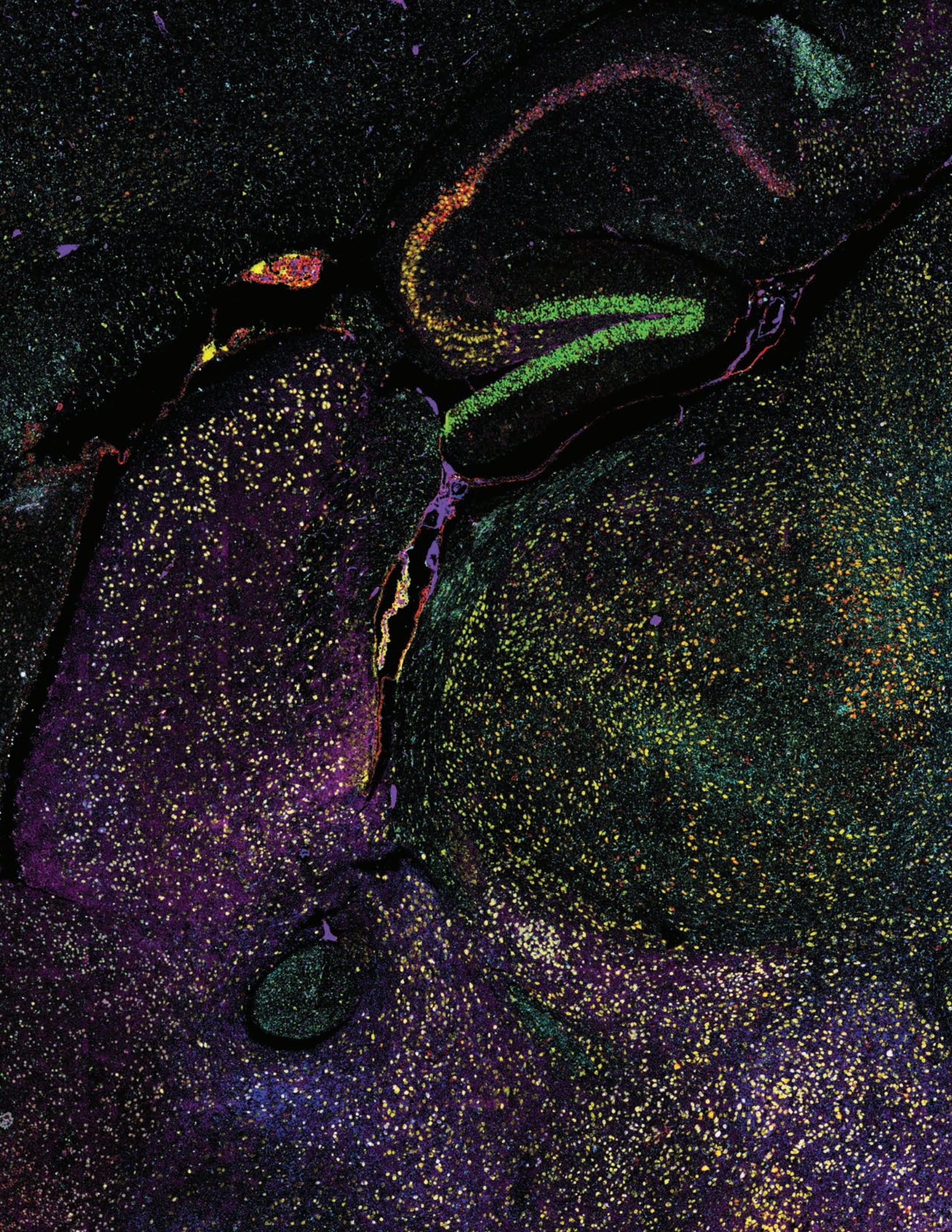


BRUKER SPATIAL BIOLOGY

CosMx™ Spatial Molecular Imager

True Single-Cell In Situ Solution



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

Multiomic
One system for RNA and protein

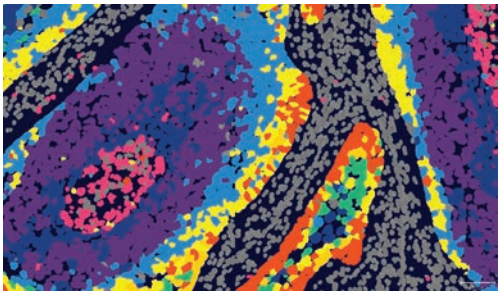
Any Sample Type
Real-world FFPE, fresh frozen, TMA, organoids and more

High Resolution
Single-cell analysis at subcellular resolution

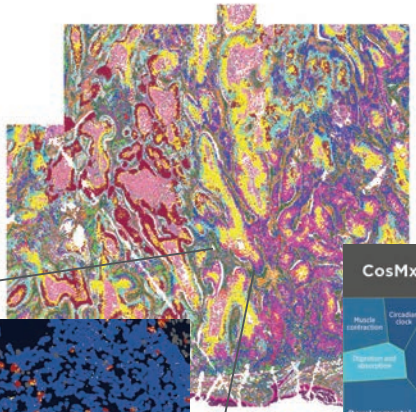
Simple & Flexible
Easy-to-use workflow with customizable panels and scan area

\+ **AtoMx™ Spatial Informatics Platform**
An integrated informatics solution, AtoMx SIP enables scalable data analysis, storage, and sharing

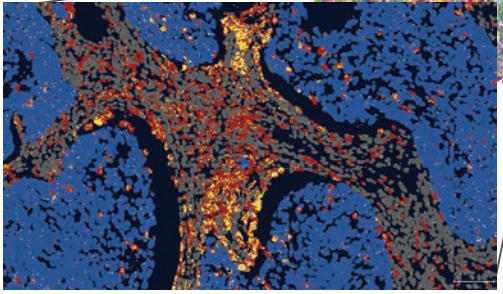
High Plex Panels More cell types, cell states and biological pathways



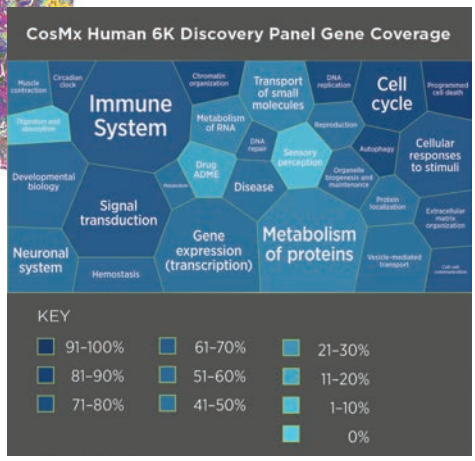
Cell Type Map of Skin Cancer



Cell Response
Discovery of monocytes responding to tumors and differentiating into macrophages



High Plex Imaging
CosMx SMI delivers ultra high plex technology to image and quantify up to 6000 plex RNA and up to 76 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.



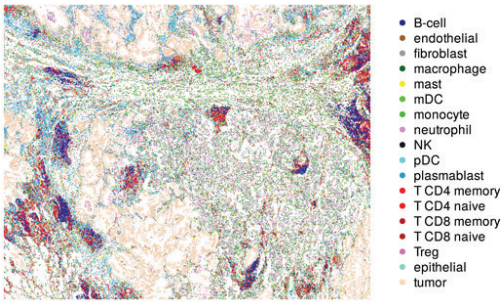
Spatial Applications

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.

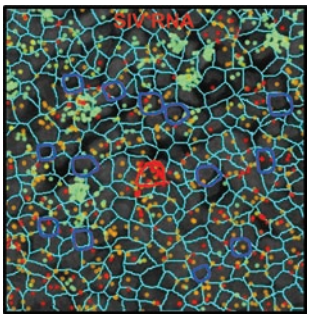
Cell Atlasing / Cell Typing

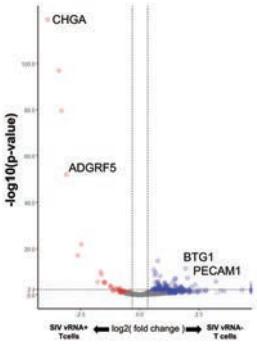
Discover and map cell types using expression profiles of known RNA and protein targets

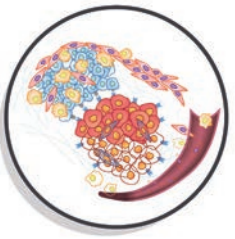


Biomarker Discovery

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

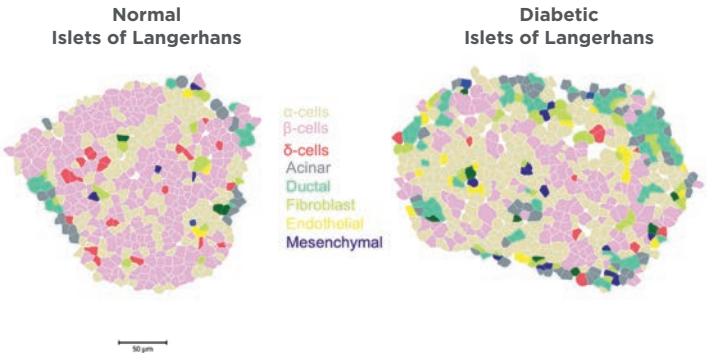


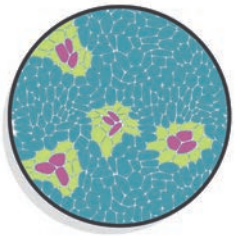




Disease State

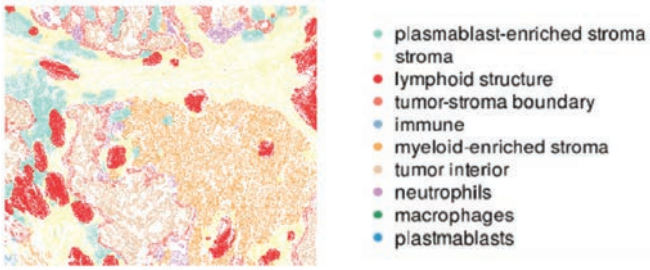
Visualize and quantify molecular (RNA / protein) and cellular organizational changes in a tissue





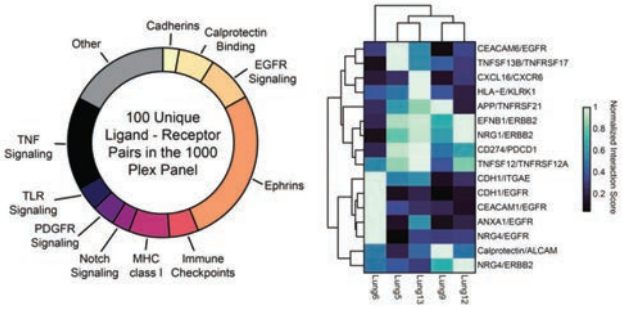
Tissue Microenvironment

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

Simple Sample Preparation

A fast and easy-to-use workflow

2

Automated Imaging

Robust single molecule *In Situ* hybridization chemistry

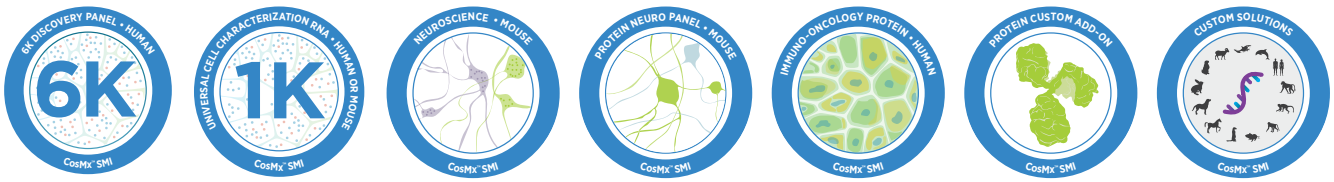
3

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™ 6K Discovery Panel	CosMx™ Human Universal Cell Characterization Panel (RNA, 1000 Plex)	CosMx™ Mouse Neuroscience Panel (RNA, 1000 Plex)	CosMx™ Mouse Neuroscience Panel (Protein, 68 Plex)	CosMx™ Human Immuno-oncology Panel (Protein, 64 Plex)	CosMx™ Custom Protein Add-on Panel	CosMx™ Custom RNA Barcoding Add-on Panel

From Data to Insight

AtoMx™ Spatial Informatics Platform

AtoMx™ Spatial Informatics Platform

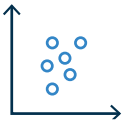
A complete cloud-based spatial biology informatics solution for fast and secure analysis and visualization of CosMx data anytime, anywhere.

NanoString Spatial Platform Integration

Stream image and count files seamlessly from CosMx SMI into AtoMx SIP.

Data Management

Securely store, manage, and export spatial multiomics data around the globe.



Analyze & Visualize Spatial Data

Perform secondary analysis and tertiary analysis with preconfigured modules and data analysis pipelines.

Custom Analysis

Edit pre-built modules and pipelines OR build custom modules and pipelines to analyze spatial data to fit your needs.*

Security & Compliance

Single Sign-On authentication backed by standard-compliant data encryption for data-in-transit and data-at-rest through Amazon Web Services.

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			

* R scripts supported for CosMx SMI

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

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