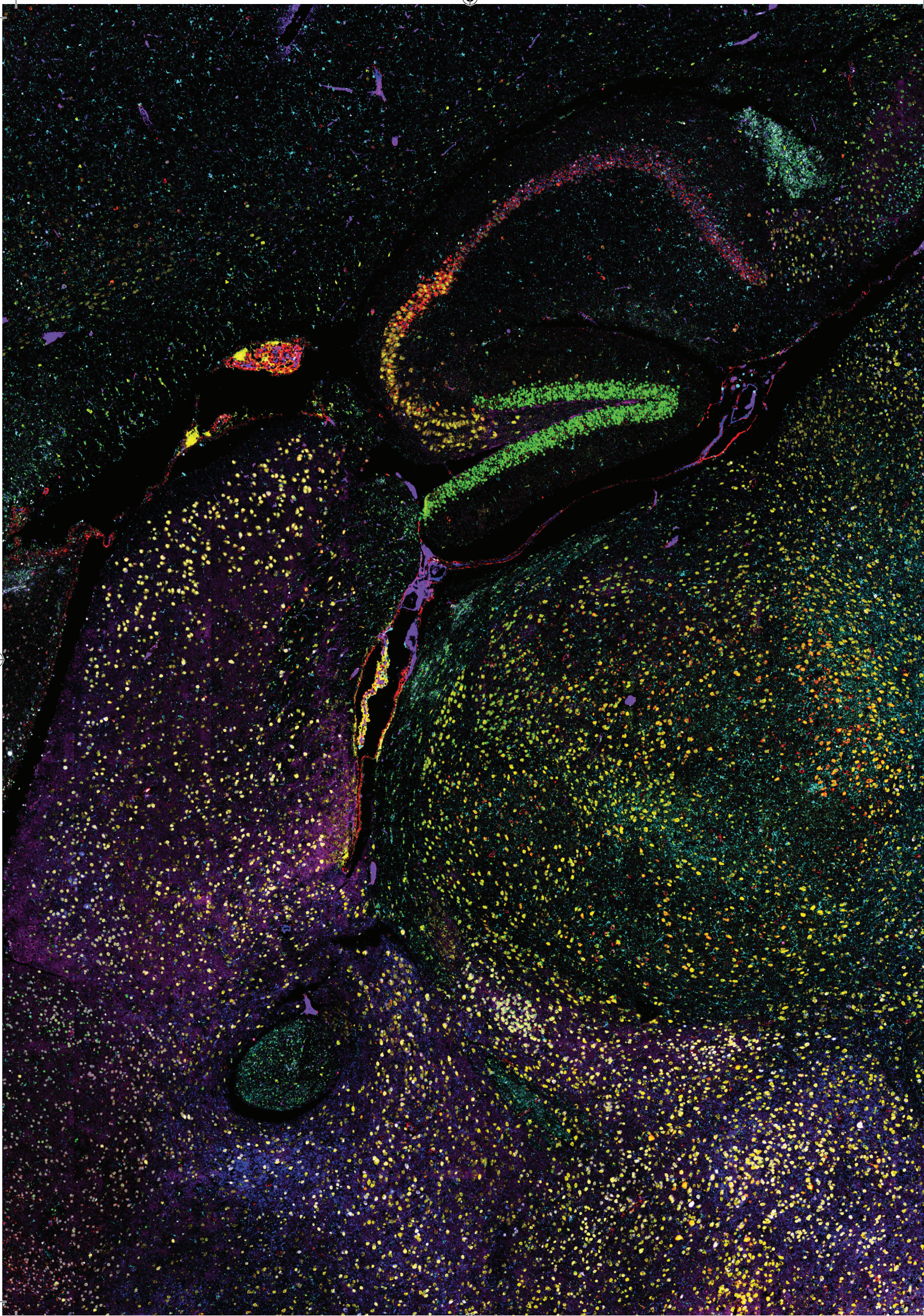


BRUKER SPATIAL BIOLOGY

CosMx[™] Spatial Molecular Imager

True Single-Cell In Situ Solution

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



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

Multimodal

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

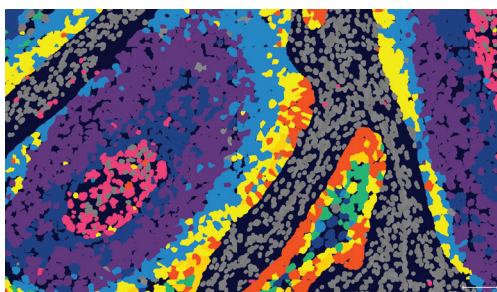
Easy-to-use workflow with customizable panels and scan area



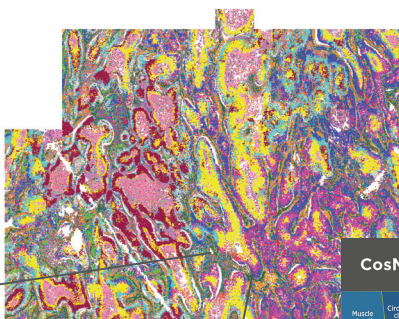
AtoMx™ Spatial Informatics Platform

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

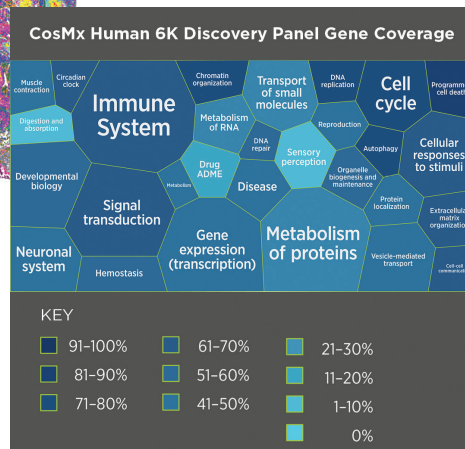
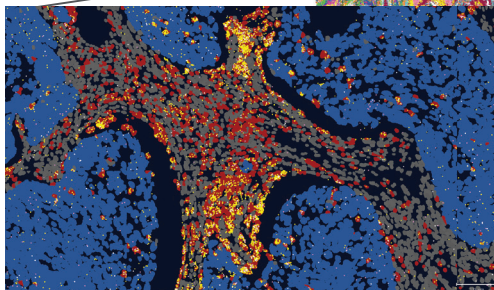


High Plex Imaging

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.

Cell Response

Discovery of monocytes responding to tumors and differentiating into macrophages



Spatial Applications

Reveal unique biological insights

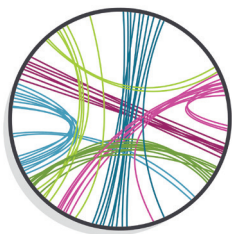
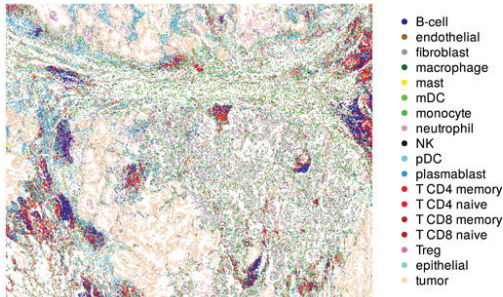


Single-cell data generated from intact fresh frozen (FF) or FFPE tissues using the CosMx Spatial Molecular Imager reveals deeper biological insights from a single experiment.



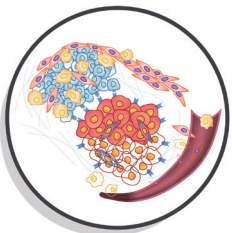
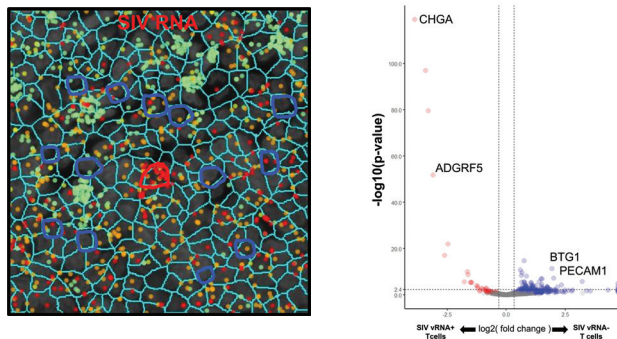
Cell Atlasing / Cell Typing

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



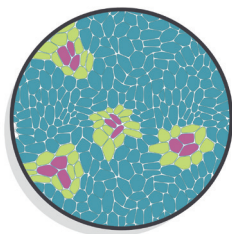
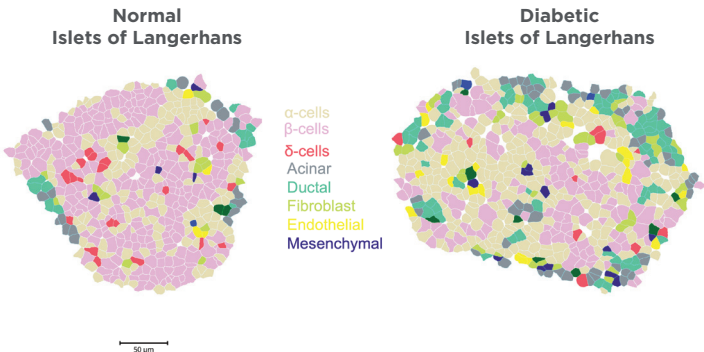
Biomarker Discovery

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



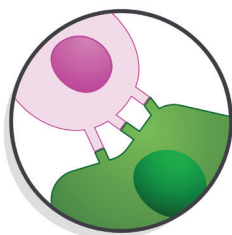
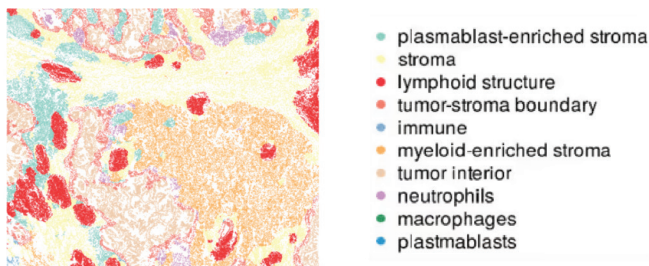
Disease State

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



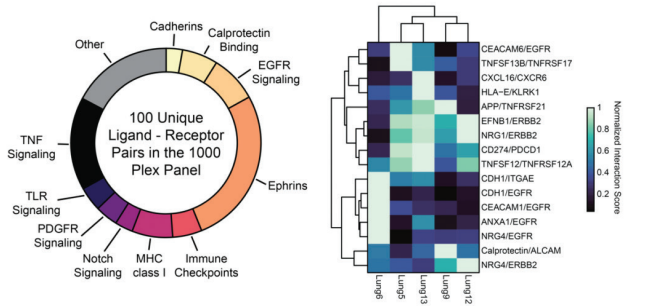
Tissue Microenvironment

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



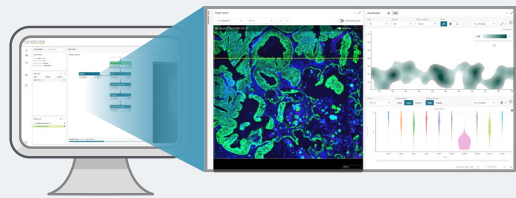
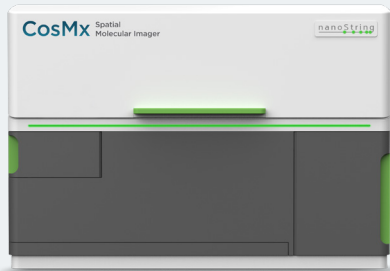
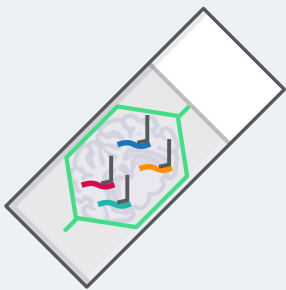
Ligand-Receptor Interaction

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



Easy to Use

Complete Sample to Insight Solution



1

2

3

Simple Sample Preparation

A fast and easy-to-use workflow

Automated Imaging

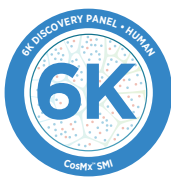
Robust single molecule
In Situ hybridization
chemistry

Integrated Data Analysis

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

Panel Assays

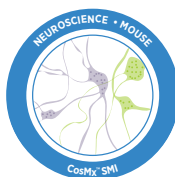
Flexible options to cover your research needs



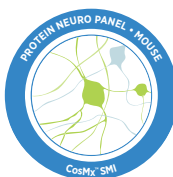
CosMx™ 6K
Discovery Panel



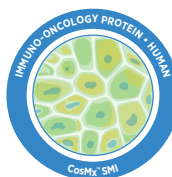
CosMx™ Human
Universal Cell
Characterization
Panel
(RNA, 1000 Plex)



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

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



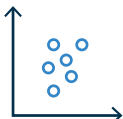
NanoString Spatial Platform Integration

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



Bruker Spatial Biology | For more information, visit nanosttring.com/cosmx

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