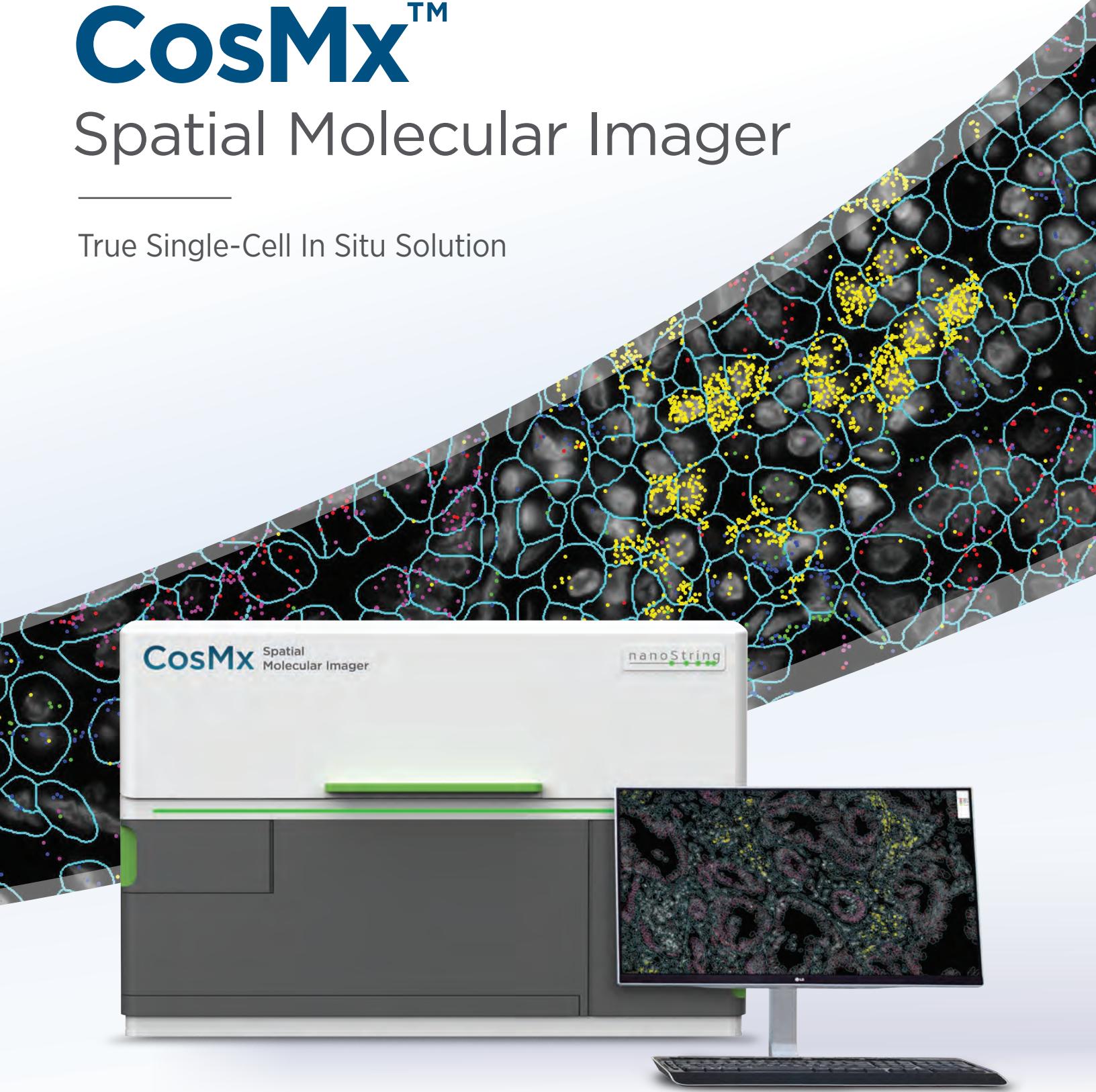


CosMx™

Spatial Molecular Imager

True Single-Cell In Situ Solution



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nanoString
A BRUKER COMPANY



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 and Flexible

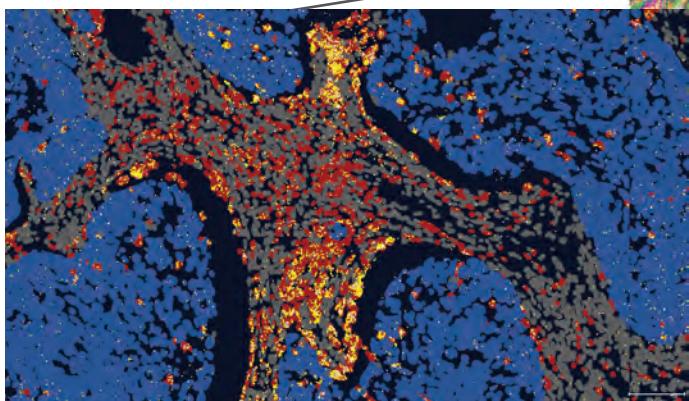
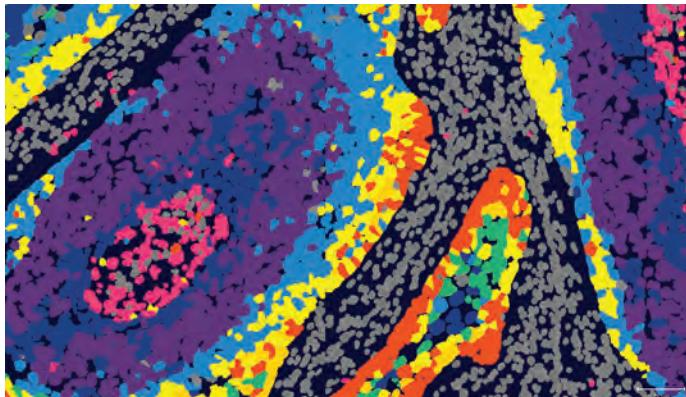
Easy-to-use workflow with customizable panels and scan area

AtoMx™ Spatial Informatics Platform

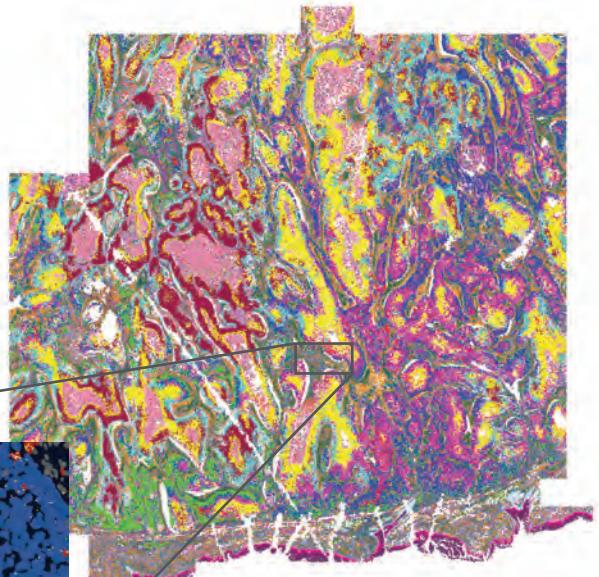
An integrated informatics solution, AtoMx SIP enables scalable data analysis, storage, and sharing

Cell States

Five Cancer cell states discovered forming layers within a keratin pearl in Skin Cancer

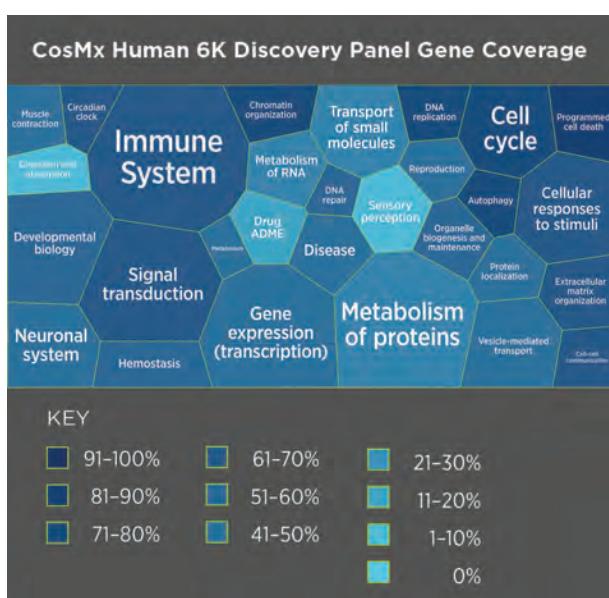


Cell Type Map of Skin Cancer



Cell Responses

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 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

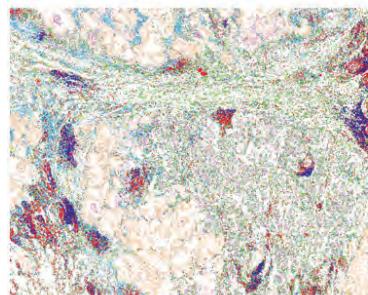
Reveal unique biological insights

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.

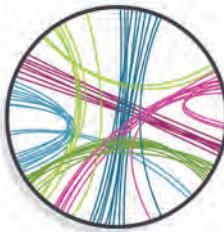


Cell Atlasing / Cell Typing

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

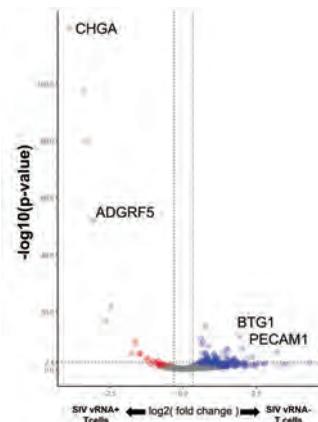
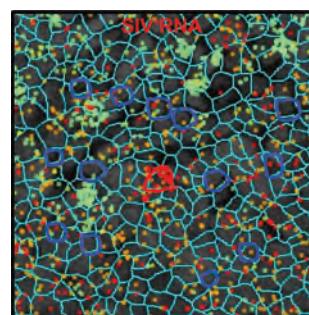


- B-cell
- endothelial
- fibroblast
- macrophage
- mast
- mDC
- monocyte
- neutrophil
- NK
- pDC
- plasmablast
- T CD4 memory
- T CD4 naive
- T CD8 memory
- T CD8 naive
- Treg
- epithelial
- tumor



Biomarker Discovery

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

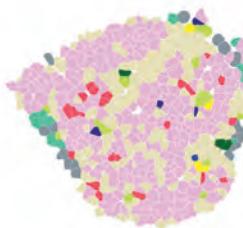




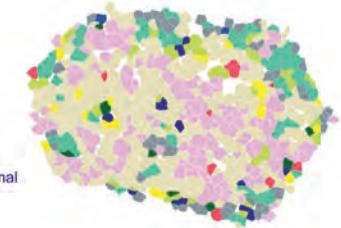
Disease State

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

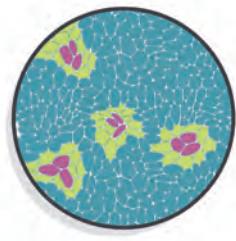
Normal Islets of Langerhans



Diabetic Islets of Langerhans

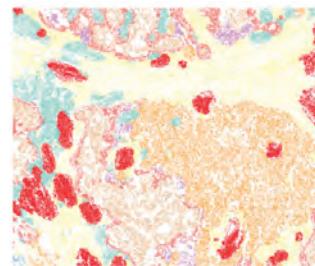


50 μm

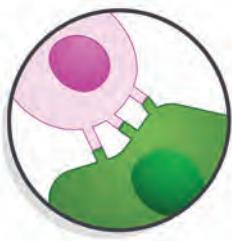


Tissue Microenvironment

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

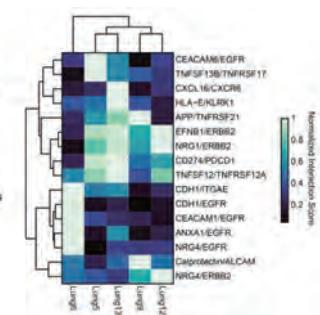
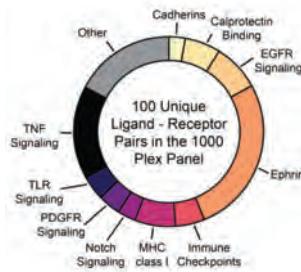


- plasmablast-enriched stroma
- stroma
- lymphoid structure
- tumor-stroma boundary
- immune
- myeloid-enriched stroma
- tumor interior
- neutrophils
- macrophages
- plasmablasts



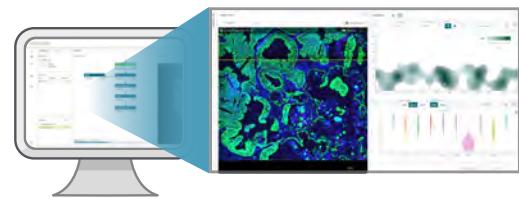
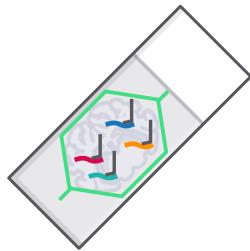
Ligand-Receptor Interaction

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



Easy to Use

Complete Sample to Insight Solution



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



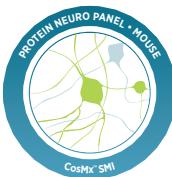
CosMx™ 6K Discovery Panel



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

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.

Scalable

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

Simple

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

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

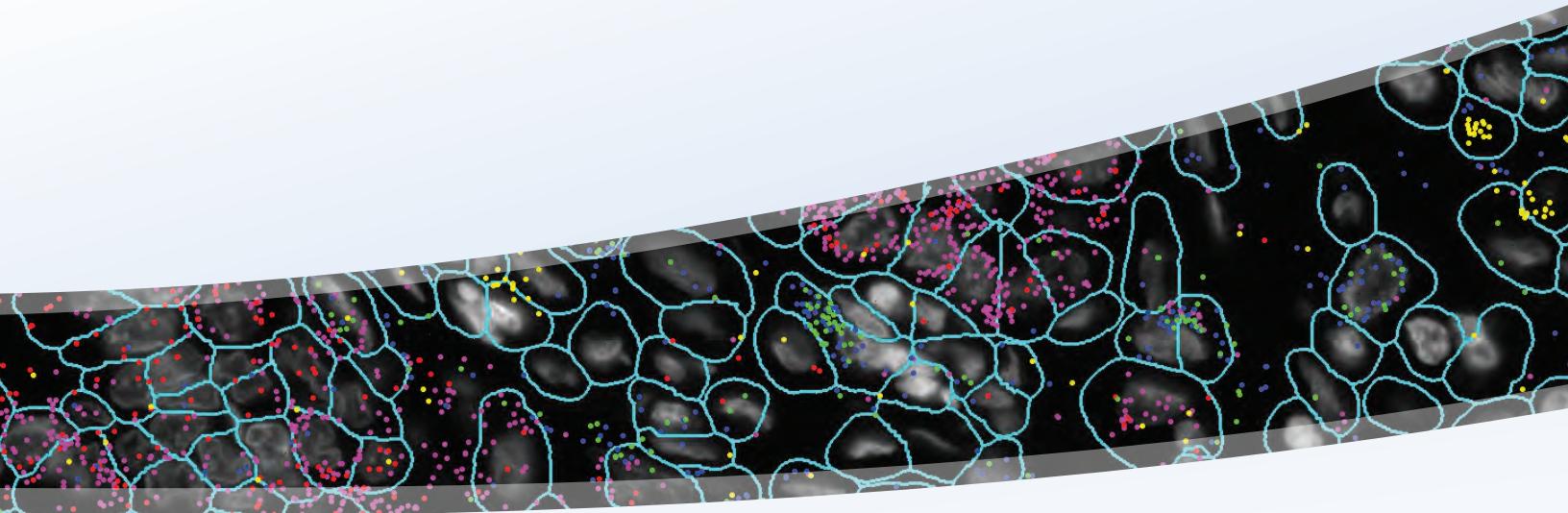


Foundational Analysis Modules	Spatial Analysis Modules	Analysis Pipeline	Custom Analysis Modules
QC	Ligand-Receptor	Foundational – RNA	User-Defined
Normalization	Nearest Neighbor	Foundational – Protein	
UMAP	Spatial Network		
Cell Typing	Cell Proximity Analysis		
PCA	Differential Expression		
Spatial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

Bruker Spatial Biology, Inc.

530 Fairview Avenue North
Seattle, Washington 98109

T (888) 358-6266
F (206) 378-6288

nanostring.com
info@nanostring.com

Sales Contacts

United States us.sales@nanostring.com
EMEA: europe.sales@nanostring.com

Asia Pacific & Japan apac.sales@nanostring.com
Other Regions info@nanostring.com

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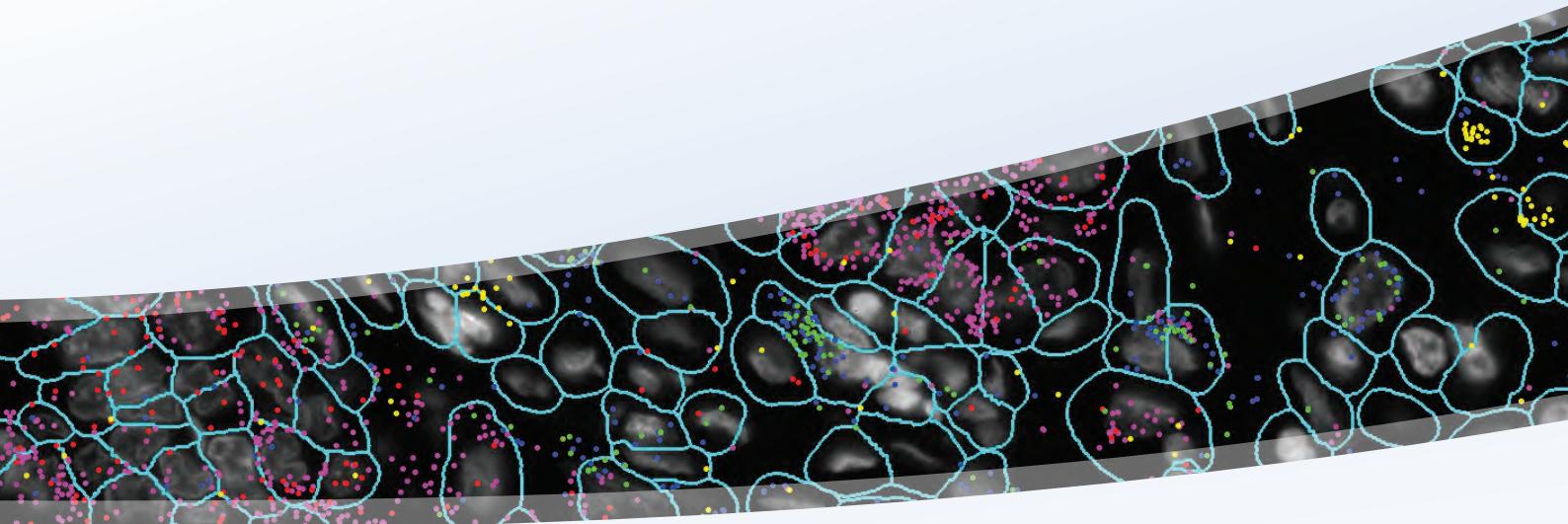
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Instrument Information

Product	Description	Catalog Number
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	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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For more information, please visit nanostring.com

Bruker Spatial Biology, Inc.

530 Fairview Avenue North
Seattle, Washington 98109

T (888) 358-6266
F (206) 378-6288

nanostring.com
info@nanostring.com

Sales Contacts

United States: us.sales@nanostring.com
EMEA: europe.sales@nanostring.com

Asia Pacific & Japan: apac.sales@nanostring.com
Other Regions: info@nanostring.com

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