

The First Fully Integrated Single-Cell Spatial Solution

Shipping Now

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CosMx™ SMI and AtoMx™ SIP combine cutting-edge instrumentation with AI-powered analysis

CosMx Spatial Molecular Imager: Stop Imagining, Start Imaging



Meet CosMx™ Spatial Molecular Imager, the first fully-integrated single-cell spatial biology solution powered by AtoMx™ Spatial Informatics Platform.

An Unmatched Single-Cell Spatial Solution

[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.

To help accelerate discoveries with CosMx SMI, we've built a new cloud-based analysis solution: [AtoMx™ Spatial Informatics Platform \(SIP\)](#). On CosMx SMI, secondary analysis occurs so further analysis can be performed with ease on AtoMx SIP. You

can then analyze and visualize CosMx SMI single-cell spatial data with ease.



ANALYZE COSMX SMI DATA

COMPLIMENTARY ATOMX SIP FOR 1 YEAR

Try the world's first cloud-based single cell analysis tool

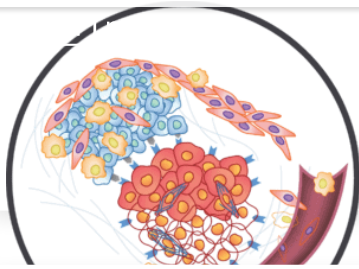
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Key Applications



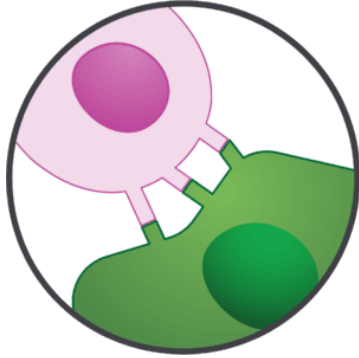
Cell Atlasing/Cell Typing

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



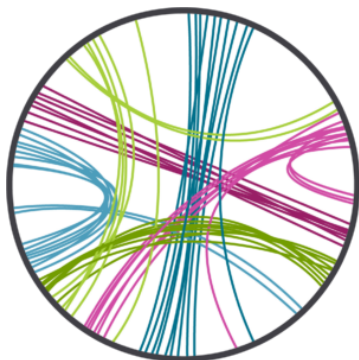
Disease State

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



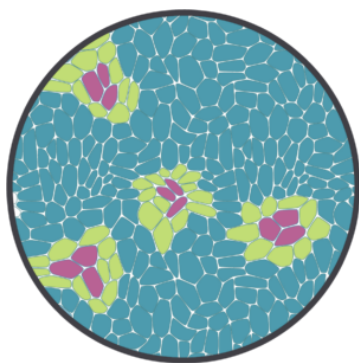
Ligand-Receptor Interaction

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



Biomarker Discovery

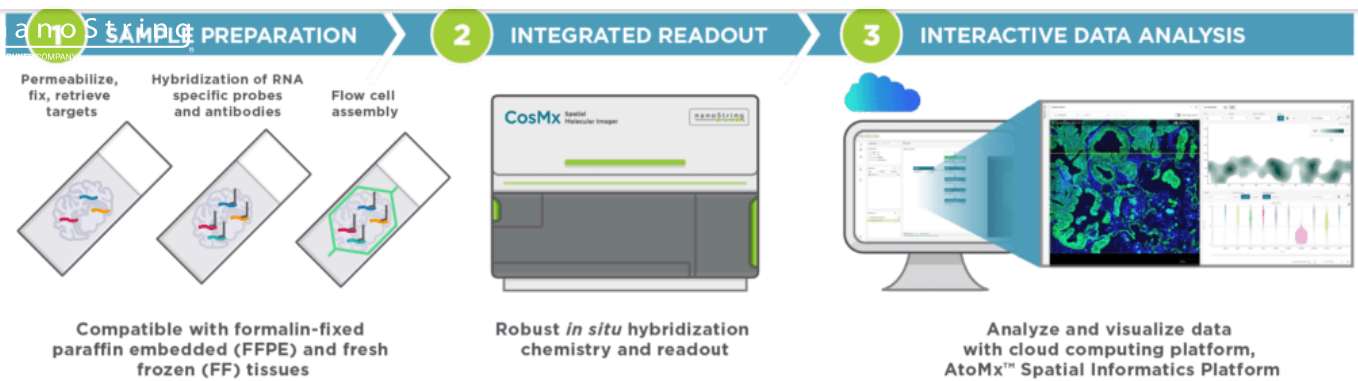
Reveal differential gene expression and pathways in the same cell types depending on their spatial location



Tissue Microenvironment

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

How It Works



Going from tissue sample to single-cell and subcellular insights has never been easier. With CosMx SMI, researchers can choose between preparing fresh frozen (FF) or even formalin-fixed paraffin embedded (FFPE) tissue samples with our 1000 plex RNA assay or 64-plex protein assay.

This streamlined workflow integrates with standard ISH protocols and eliminates the need for tissue expansion or clearing, cDNA synthesis, and amplification. Once tissue samples have been prepared, researchers can load their slides and associated CosMx reagents and allow the platform to perform the automated cyclic *in situ* hybridization chemistry.

While the tissues are being imaged on the CosMx SMI, a machine learning-driven algorithm performs cell segmentation on the images in parallel. Once a CosMx run has completed, these image files are ready to be analyzed and interpreted on AtoMx SIP with a few clicks.

Related Resources

BROCHURE/EBOOK

CosMx™ SMI – Brochure

PRODUCT BULLETIN

AtoMx™ SIP –
Product Bulletin

GRANT SUPPORT

CosMx SMI Grant Package

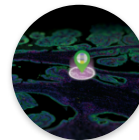
Related Products



CosMx™ SMI



AtoMx™ SIP



GeoMx® DSP



nCounter® Pro

For Research Use Only. Not for use in diagnostic procedures.



Quick Links

Connect

Catalyzing the next biological revolution to
improve the human condition.

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