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CosMx™ SMI for Single-Cell Imaging

True Single-Cell In Situ Solution Shipping Now

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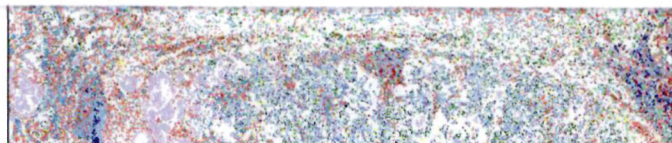
Elevate your single-cell research with CosMx™ SMI

A Spatial Multiomics Single-Cell Imaging Platform

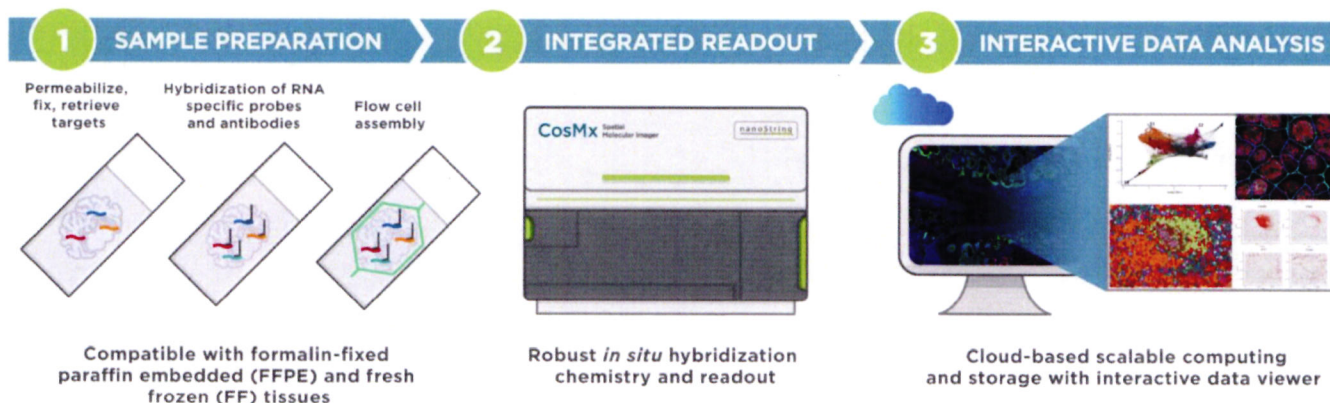
CosMx SMI is the first high-plex *in situ* analysis platform to provide [spatial multiomics](#) with formalin-fixed paraffin-embedded (FFPE) and fresh frozen (FF) tissue samples at cellular and subcellular resolution. CosMx SMI enables rapid quantification and visualization of up to 6,000 RNA and 64 validated protein analytes. It is the flexible, spatial single-cell imaging platform that will drive deeper insights for cell atlasing, tissue phenotyping, cell-cell interactions, cellular processes, and biomarker discovery.

EXHIBIT 1080
2-4-25
J. BELLINGER
RPR, CRR

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Formalin-Fixed Paraffin-Embedded (FFPE) Tissue



CosMx SMI for single-cell imaging delivers a comprehensive package which includes validated reagents, instrument, and data analysis software for seamless sample-to-result.

"The CosMx SMI complemented our efforts to generate organ atlases of the healthy human system together with our partners of the Human Cell Atlas project. It allowed us to visualize single-cell reference maps directly in organs. The scale of 1000-plex gene panel with image-guided cell segmentation makes the CosMx SMI, a unique platform for spatial genomics!"

**Dr. Holger Heyn**

Team Leader, Single Cell Genomics Group, CNAG, Spain

"We are impressed
SMI enabled single
various tissue type
plex protein assay
solution. The Cos
analysis from valu
microarrays, enab
samples weekly."

**Dr. N**
Professor

Be the first to get...

HIGH-PLEX ASSAYS	—
FFPE COMPATIBILITY	+
HIGH SENSITIVITY	+
TRUE SINGLE-CELL SEGMENTATION	+
SPATIAL MULTIOMICS	+

How it works

CosMx SMI is an integrated system with mature cyclic fluorescent *in situ* hybridization (FISH) chemistry, high-resolution imaging readout, interactive data analysis and visualization software.

Easy Sample Preparation, Compatible with Any Sample Type

Automated Cyclic *in situ* Hybridization Chemistry

Applications

Identify cellular neighborhoods that reveal tumor heterogeneity at single cell resolution.

Understand how CNS cells interactive with one another in health and disease.

Reveal highly heterogeneous but small cell populations and relationships from the earliest stages of development.

CosMx Spatial Molecular Imager is the most flexible and robust spatial single-cell imaging platform for:

- **Cell Atlas and Characterization:** Define cell types, cell states, tissue microenvironment phenotypes, and gene expression networks within spatial context.
- **Cell-cell Interaction:** Understand biological process controlled by ligand-receptor interactions.
- **Spatial Biomarkers:** Quantify change in gene expression based on treatment and identify single-cell subcellular biomarkers with spatial context.

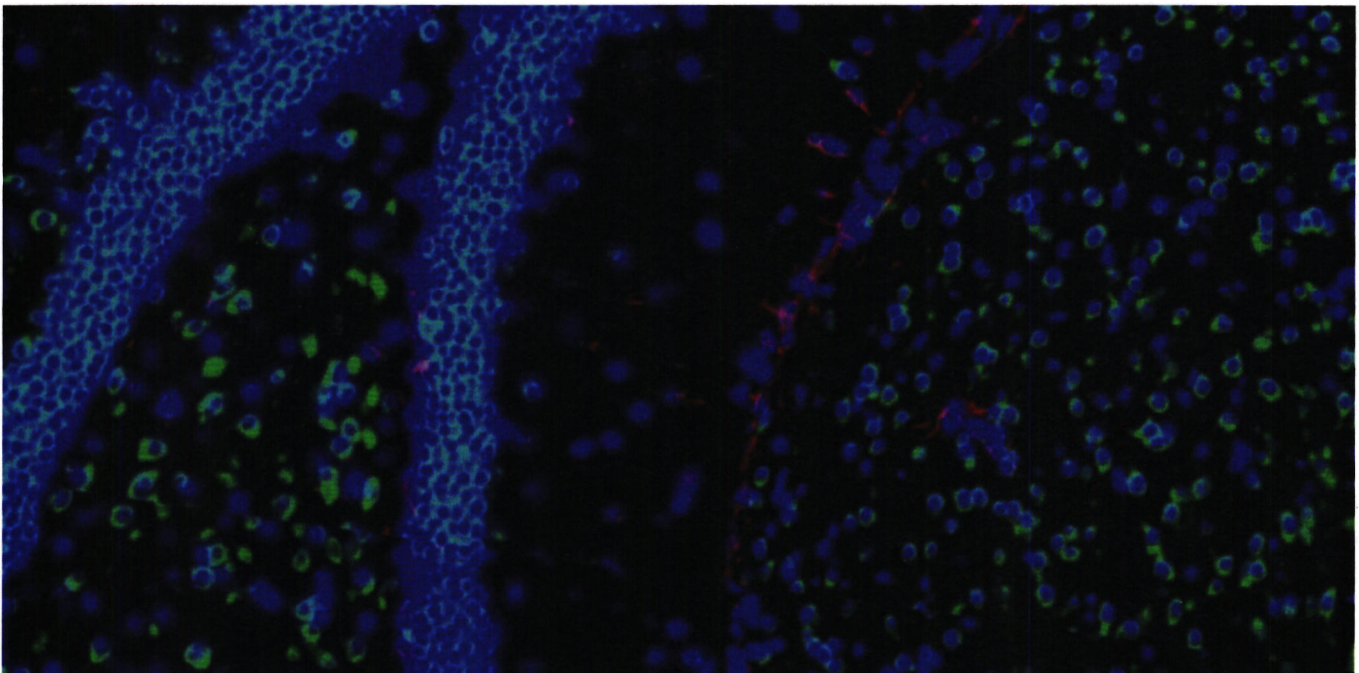
INTERESTED IN LEARNING MORE ABOUT COSMX SMI FOR SINGLE-CELL IMAGING?

Contact our helpful experts and we'll be in touch soon.

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CONTACT US

Webinar: Single Cell Spatial Transcriptomics 101: Intro to CosMx SMI



Related Resources

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BROCHURE/EBOOK
CosMx™ SMI – Brochure

Evaluating the Technical Performance of Single-Cell Spatial Molecular Imaging Technologies

GRANT SUPPORT
CosMx SMI Grant Package

PUBLICATION
High-Plex Multiomic Analysis in FFPE Tissue at Single-Cellular and Subcellular Resolution by Spatial Molecular Imaging

MANUAL/INSTRUCTIONS
NanoU Training Videos

CosMx SMI Performance

Support Documents

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Why is a single cell important?



Why is single-cell analysis important?



What is single-cell technique?



What is single-cell spatial transcriptomics?



Is spatial transcriptomics single-cell resolution?



What is single-cell analysis used for?



Posters

A spatially-resolved, single-cell analysis of human olfactory cleft mucosa highlights the transcriptional dysregulation in sustentacular cells with SARS-CoV-2 viral load



[READ MORE](#)

SfN 2023: Uncover laminar organization of the developing human neocortex using 6,000-plex RNA spatial imaging

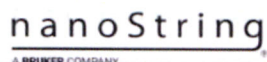


SfN 2023: A Multi-Omics Cell Segmentation Pipeline Using RNA Spots and High-Plex Protein Neuro Images



Path to the holy grail of spatial biology: Spatial single-cell whole transcriptomes using 6000-plex spatial molecular imaging on





Single cell spatial molecular imaging of 76-plex proteins in clinical cancer samples in response to personalized treatment – AACR 2023



A complete pipeline for high-plex spatial proteomic profiling and analysis on the CosMx™ spatial molecular imager and AtoMx™ spatial informatics platform – AACR 2023



Spatial transcriptomic profiling of the human and mouse retina prepared with CryoJane Tape Transfer System using GeoMx and CosMx spatial analysis – AACR 2023



Spatial insights into tumor immune evasion illuminated with 1000-plex RNA profiling with CosMx Spatial Molecular Imager – AACR 2023



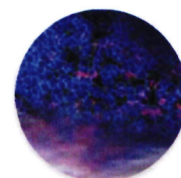
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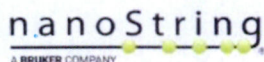
**CosMx™ SMI FFPE
Datasets**



**CosMx™ SMI
Technology Access
Program**



**CosMx™ SMI Grai
Support Package**



Catalyzing the next biological revolution to improve the human condition.

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