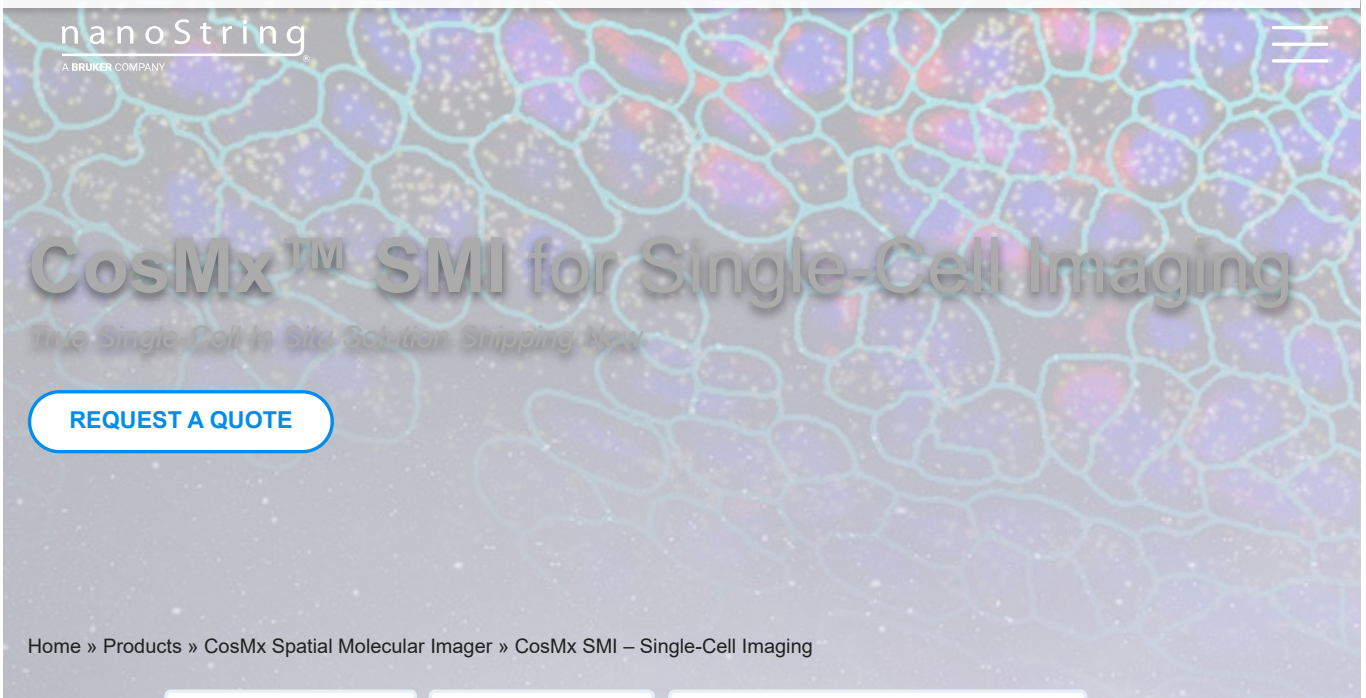
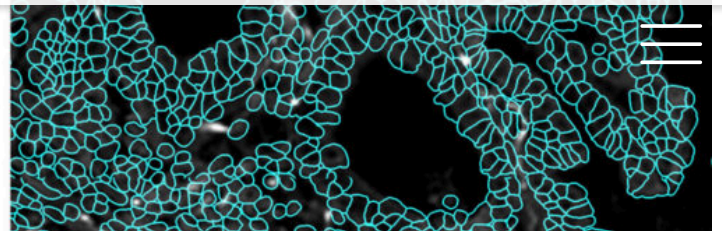
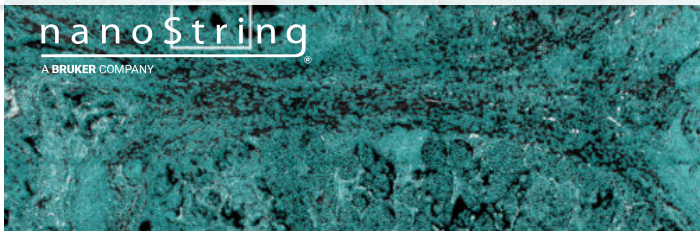




Elevate your single-cell research with CosMx™ SMI

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.



Formalin-Fixed Paraffin-Embedded (FFPE) Tissue

“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

“The CosMx SMI inst
laboratory’s future d
of the customer sup
absolutely fantastic!



Dr. Gr

Director, Re
University S



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.

Profile the immune response at the single cell and subcellular level.

Assess heterogeneity of immune cell population and disease progression at the cellular and sub-cellular level.

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.

CONTACT US

Webinar: High-Plex Imaging for RNA and Protein in FFPE tissue



VIDEO

Webinar: High Plex Imaging for RNA and Protein in FFPE tissue

Related Resources

BROCHURE/EBOOK

CosMx™ SMI – Brochure

WHITEPAPER

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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Single-Cell Imaging FAQs

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 FFPE tissue – AACR 2023

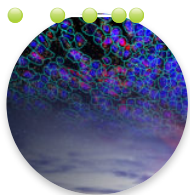
Single cell spatial molecular imaging of 76-plex proteins in clinical cancer samples in response to personalized treatment – AACR 2023

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

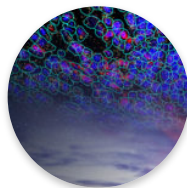
Spatial transcriptomic profiling of the human and mouse retina prepared with CryoJane Tape Transfer System using GeoMx and CosMx spatial analysis – AACR 2023

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

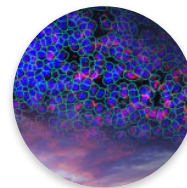
Related Products



CosMx™ SMI FFPE Datasets



CosMx™ SMI Technology Access Program



CosMx™ SMI Grai Support Package

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



Catalyzing the next biological revolution to
improve the human condition.

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530 Fairview Ave N,
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1-888-358-6266

[CONTACT US](#)