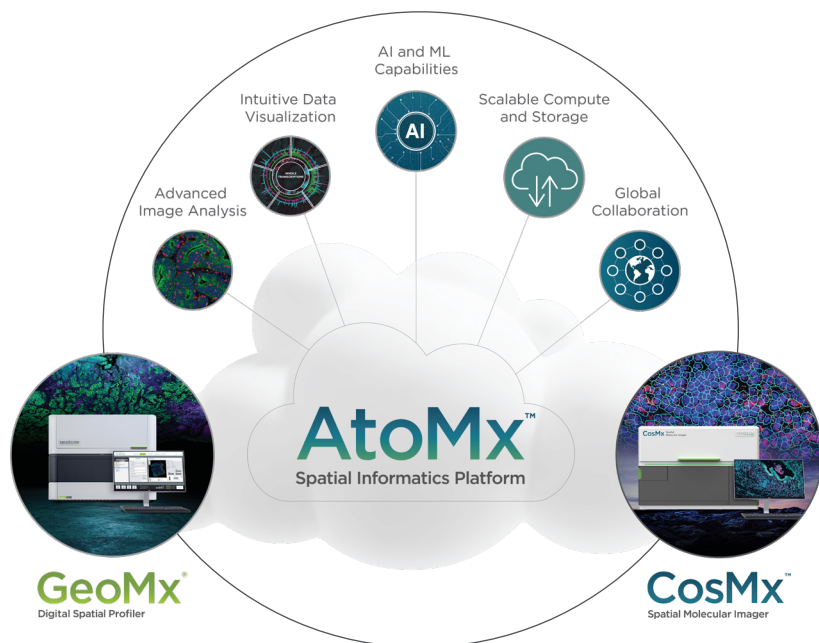




AtoMx™ Spatial Informatics Platform

Experience more. A fully integrated spatial biology analysis solution



Product Highlights

- Push-button analytics: analyze data easily with Workflow Tools and Pipeline Orchestrator
- Automatically start secondary analysis after completion of a CosMx™ SMI run featuring Machine Learning (ML)-driven Cell Segmentation
- Visualize and store spatial multiomic data on a single platform
- Share data seamlessly and collaborate with researchers at your institution or across the globe
- Access spatial biology data anytime, anywhere

Introduction

Spatial biology is revolutionizing the fields of multiomics and pathology. Extracting biological insights from spatial data is vital to advancing science. However, the analysis of spatial multiomics data is only possible with a robust and scalable informatics solution. AtoMx Spatial Informatics Platform (SIP) has been developed to help simplify data analysis so that researchers can focus on scientific discoveries and publish their research faster.

AtoMx SIP is the only complete, cloud computing informatics platform for spatial biology. This platform streamlines workflows and enables users to analyze, manage, and share data from NanoString's GeoMx® Digital Spatial Profiler (DSP) and CosMx Spatial Molecular Imager (SMI) instruments (Figure 1) anytime and anywhere.

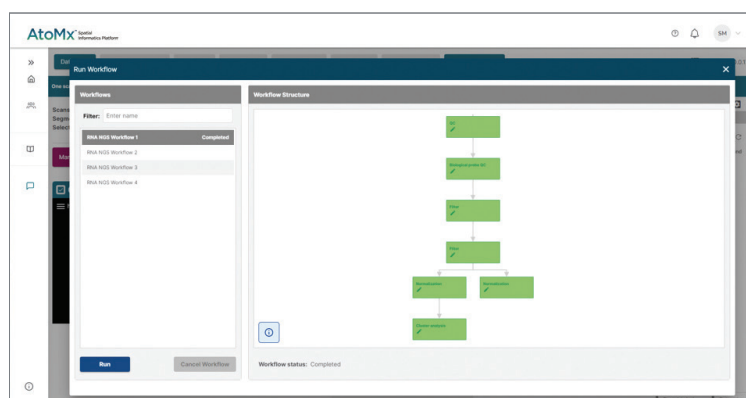
GeoMx®
Digital Spatial Profiler

CosMx™
Spatial Molecular Imager

Preconfigured Analysis	Probe QC & Normalization	Probe QC & Normalization
	Differential Expression & Spatial Analysis	Cell Typing & Spatial Clustering
	Statistical Analysis	PCA & UMAP
Custom Scripting Supported Languages	R	R & Python

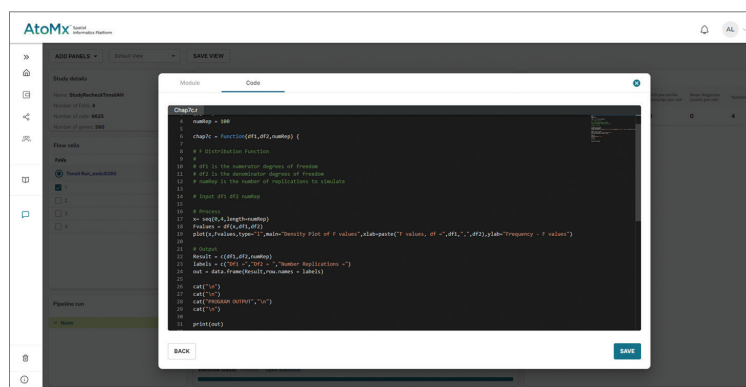
A Complete Spatial Informatics Solution

By harnessing the unlimited compute power and storage of the cloud, researchers can analyze large amounts of spatial data and obtain powerful insights with the click of a button. AtoMx SIP gives researchers the flexibility and tools necessary to analyze spatial multiomic data to fit their research needs without the need for coding or scripting experience to use the analysis pipelines.



Preconfigured modules simplify analysis of large spatial multiomics datasets

Researchers have the option to utilize pre-built analysis pipelines built by NanoString, edit existing pipelines, or create custom pipelines all within AtoMx SIP. Workflows for GeoMx® DSP and Pipeline Orchestrator for CosMx® SMI allow users to analyze data with preset parameters and analysis pipelines or edit these preconfigured pipelines to meet their research needs.



Create custom analysis modules with ease

For researchers with scripting experience and interest in analyzing their data beyond the provided tools, custom modules can be created in either R or python.



Securely analyze, store, and manage data

AtoMx SIP is hosted on Amazon Web Services (AWS) which provides a high level of security and adheres to industry-specific compliance standards. As such, AtoMx SIP users benefit from compliance certifications including PCI-DSS, HIPAA/HITECH, FedRAMP, GDPR, FIPS 140-2, and NIST 800-171. These certifications help satisfy compliance requirements for virtually every regulatory agency around the globe. So, researchers can securely store, manage, and analyze data in AtoMx SIP with peace of mind.

An End-to-End Analysis Solution Powered by AtoMx SIP

Complete

Integrated spatial informatics solution for CosMx™ Spatial Molecular Imager (SMI) & GeoMx® Digital Spatial Profiler (DSP).

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.

Flexible

Modify existing pipelines or modules and create custom modules to analyze data.

Secure

PCI-DSS, HIPAA/HITECH, FedRAMP, GDPR, FIPS 140-2, and NIST 800-171 compliant.

The powerful data analysis and visualization tools available through AtoMx SIP enable a complete sample to insight solution when coupled with NanoString's spatial platforms. Learn how you can discover more with AtoMx SIP by visiting nanosttring.com/atomx or [contact your local NanoString team](#) today.



For more information visit nanosttring.com/AtoMx

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