



AtoMx[®] Spatial Informatics Platform

Accelerating single-cell spatial data insights

The AtoMx Spatial Informatics Platform is the first comprehensive cloud platform for single-cell spatial analysis that scales to any plex and throughput. The platform is fully integrated with the CosMx[®] Spatial Molecular Imager for a complete informatics solution from data upload to exploration to export.



Product Highlights

- Tunable machine-learning cell segmentation tool kit
- Multi-sample and iterative analytics suite
- New single-cell spatial algorithms
- Open source portable and flexible data formats

Introduction

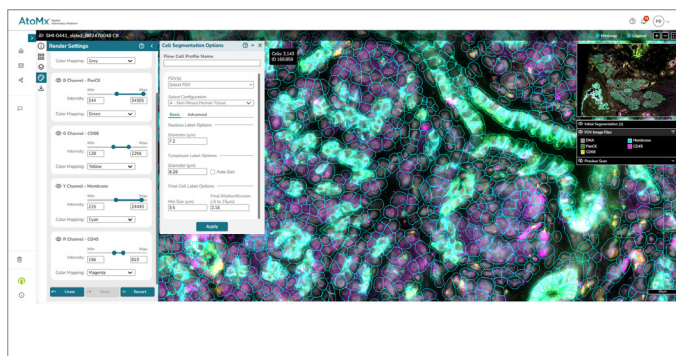
CosMx SMI is revolutionizing biology through single-cell spatial multiomics data with unmatched accuracy and high-fidelity. Extracting biological insights from these data require scalable and fit-for-purpose analytics approaches. AtoMx Spatial Informatics Platform (SIP) has been developed to accelerate data analysis to drive new scientific discoveries, research, and publications.

AtoMx End-to-End Workflow

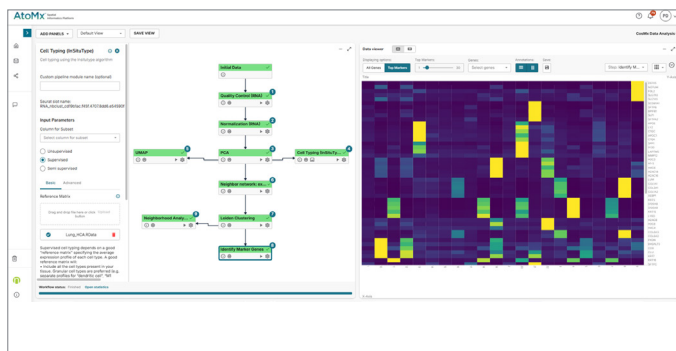
Access
Store
Visualize
Analyze
Export

A Complete Spatial Informatics Solution

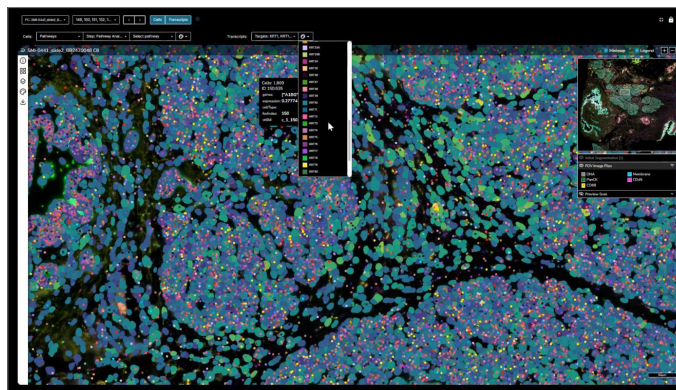
By harnessing the unlimited compute power and storage of the cloud, researchers can analyze large amounts of spatial data and discover powerful insights. AtoMx SIP gives researchers the flexibility and tools necessary to analyze spatial multiomic data to fit their research needs without the need for coding experience.



Cell Segmentation Toolkit



Pipeline Orchestrator and Interactive Data Viewer



Interactive Tissue Exploration (shown: Reactome pathway projection with select overlaid genes from CosMx Whole Transcriptome data.)

For more information visit nanosttring.com/AtoMx

Best in Class Cell Segmentation

The AtoMx SIP delivers a best-in-class toolkit for accurate cell segmentation of diverse tissues and diseases. Our advanced AI multi-modal approach utilizes protein and nuclear markers to robustly define cell boundaries.

Multi-sample and Iterative Analytics Suite

AtoMx enables the creation and execution of iterative multi-sample computational pipelines with no coding required. These pipelines include spatial modules specifically designed to leverage the CosMx SMI's unmatched sensitivity, plex, and resolution. Example modules include: single cell pathway analysis, cell typing, spatial differential expression, ligand receptor interactions, and neighborhood analysis.

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

Bruker Spatial Biology

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