



**TRUSTED PARTNER ACCELERATING DRUG
DISCOVERY & TRANSLATIONAL DEVELOPMENT**

IHC/IF/ISH, Multiplex Staining, & Spatial-omics Services

- **High-Precision Tissue Analysis**
 - Clear IHC, IF, and ISH staining for accurate biomarker insights
- **Advanced Multiplexing**
 - Visualize multiple biomarkers at once for richer, deeper data
- **Spatial-Omics Mapping**
 - Map proteins and transcripts to see biology in tissue context
- **Custom Solutions & Support**
 - Tailored protocols and expert guidance for your research



COMPREHENSIVE TISSUE-BASED BIOMARKER DISCOVERY & VALIDATION

Axela Biosciences delivers automated, high-precision, reproducible solutions in IHC/IF/ISH, multiplex staining, digital slide imaging, and spatial proteomics/genomics, supporting projects from discovery through clinical development, including:

- Chromogenic IHC and Multiplex IHC services – NeoPATH Pro Autostainer
- Fluorescence IF/ISH and Multiplex IF/ISH Services – NeoPATH Pro Autostainer
- Automated Digital Scanning – SLIDEVIEW VS200 Whole Slide Imaging Scanner
- Spatial-proteomics/genomics – NanoString GeoMx Digital Spatial Profiler
- AI Assisted Analysis of Spatial Proteomics/Genomics Data
- CLIA-Certified Clinical Testing



APPLICATIONS

From Cells to Systems: Unlocking Spatial Biology for Precision Medicine

Tumor Microenvironment Analysis

Map immune and stromal cells and their interactions in cancer tissue

Drug Development & Clinical Trials

Assess target engagement, drug efficacy, and mechanism of action

Biomarker Discovery & Validation

Identify and confirm predictive or prognostic biomarkers in spatial context

Companion Diagnostics Development

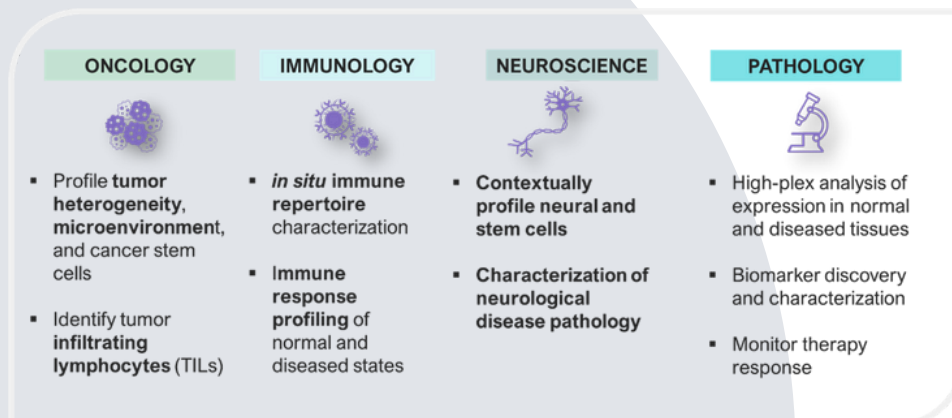
Enable personalized medicine through single/multiplexed biomarker panels

Immuno-Oncology Research

Profile immune checkpoint expression and cell-cell interactions for therapy response

Disease Pathogenesis Studies

Explore complex tissue architecture in cancer, autoimmune, neurodegenerative, and infectious diseases



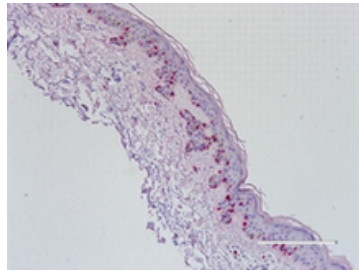
ADVANCED IHC/IF/ISH AND MULTIPLEX STAINING PLATFORM

Flexibility Meets Precision in Automated IHC/IF/ISH with NeoPATH Pro Autostainer

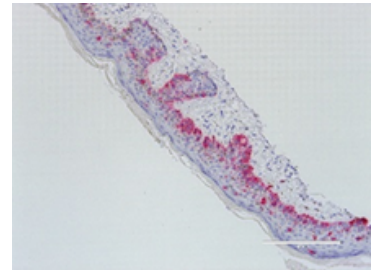
- High-throughput automated IHC/IF/ISH staining with consistent reproducibility
- Flexible multiplex IHC/IF/ISH capabilities for simultaneous biomarker detection
- Optimized for oncology, immuno-oncology & pathology testing
- High-quality staining for precise tissue analysis
- Scalable workflow suited for both clinical and translational research



42-Slide Capacity | Trusted Antibodies | Validated Reagents |
Simultaneous/Sequential Multiplex Protocols



SOX10, Melanoma, 20X



MART1, Melanoma, 20X

ADVANCED SPATIAL-OMICS PLATFORM

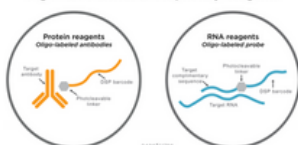
From Regions to Molecules: Spatially Resolved Multi-omics with GeoMx® Digital Spatial Profiler (DSP)

The GeoMx DSP Platform by NanoString: a versatile spatial solution for drug discovery and translational research

- Simultaneous *in situ* spatial analysis of proteins and mRNAs from the same tissue section
- Pre-designed on-shelf panels for analysis of human and mouse whole transcriptome and hundreds of proteins
- Focused regions of interest (ROI) shed light on the true biology of each sample
- ROIs from different sections of tumor and microenvironment are analyzed individually to provide a clear picture of what is happening biologically
- Explore biology with more targets and analytes than ever before, getting publishable data faster
- Comprehensive end-to-end service with expertise in IHC, mIHC, pathology, sequencing, nCounter and GeoMx

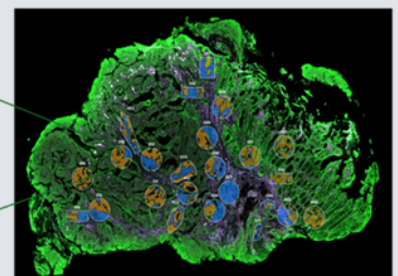


High-Plex Mixtures of Proprietary Reagents



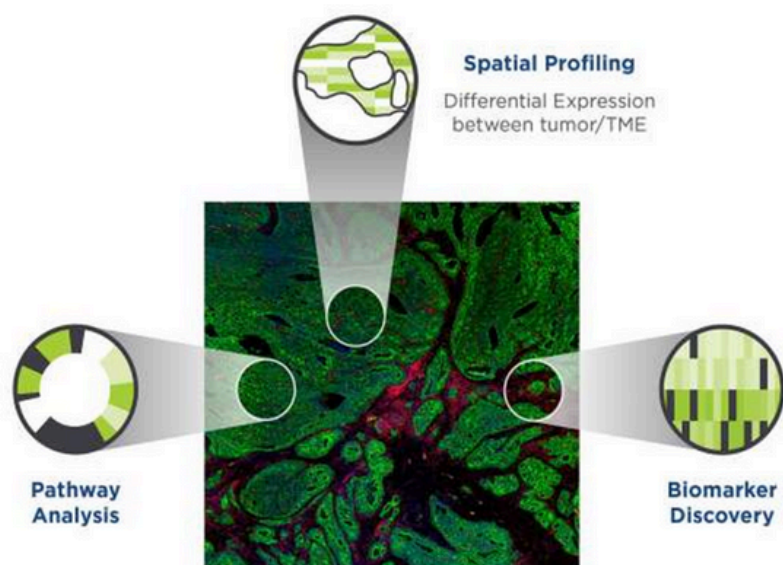
GeoMx DSP offers spatial information of protein or gene expression in tumor tissues, to quantitate interaction of immune cells, tumor cells and other cells.

4-1BB, CD11c, CD14, CD163, CD19, CD27, CD3, CD56, CD66b, CD68, CD8A, CD20, CD3, CD4, CD45, CD45RO, GZMB, HLA-DR, Histone H3, ICOS, IDO1, Ki-67, LAG3, OX40L, PD1, PD-L1, PTEN, STAT3, STAT3-P, VISTA, B7-H3 (CD276), B7-H4, Bcl-2, Beta-2-microglobulin, Beta-Catenin, CD44, Pan-Cytokeratin, S100B, S6, STING



INTEGRATED SPATIAL BIOLOGY SERVICES

Comprehensive Spatial Biology Solutions Combining Advanced IHC/IF/ISH, Multiplex Staining, and Cutting-Edge Spatial-Omics Profiling for Precision Medicine and Biomarker Discovery



Why Axela

- ✓ End-to-end workflow:
sample prep → staining → imaging → spatial-profiling → data analysis
- ✓ Expertise in oncology, immunology & translational biology
- ✓ Customizable panels for research or clinical studies
- ✓ Multi-omics integration for deep biological insights

We Can be Reached at



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