



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

Axela Biosciences

- PRECLINICAL BIOLOGY & TRANSLATIONAL SCIENCES
- BIOMARKER DISCOVERY, VALIDATION & CLIA TESTING
- BIOANALYSIS, IMMUNOGENICITY & TOXICITY EVALUATION
- PRIMARY IMMUNE CELLS & TESTING KIT PRODUCTION

AXELA SERVICES

DISCOVERY BIOLOGY & TRANSLATIONAL DEVELOPMENT

Discovery Biology & *In Vitro* Pharmacology
MOA Studies
High-throughput and High-Content Screening
Spatial Proteomics & Genomics
Cancer Cell Profiling
Tumor-immune 3D Culture and Organoids
In Vitro, *Ex Vivo*, 3D Culture Models

IN VITRO TOXICOLOGY & ADA

In Vitro Toxicity (Cytotoxicity, Immunotoxicity, Hematotoxicity, Genotoxicity, Neurotoxicity; under OECD and ICH guidelines)
ADA screening and functional assays

PLATFORMS

High-dimensional Flow Cytometry
Systematic Immuno-monitoring
IHC/IF/ISH, Multiplex Staining, & Spatial-omics Services
Ultrasensitive and Multiplex Immunoassays
Multiplex microRNA/mRNA Profiling
Live Cell Imaging
Gene Microarrays/QuantiGene
FPPA & RPPA

DIAGNOSTIC SERVICES & CLIA TESTING

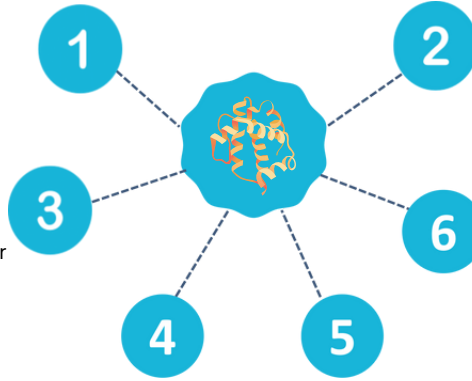
Biomarker Discovery, Validation and Quantitation
IHC/IF/ISH, Multiplex Staining & Digital Imaging
LDT & CDx Development
Kit Production, Fulfillment and Distribution

SUPPORT VARIOUS MODALITIES

Small Molecules
Antibodies & ADCs
PROTACs and Molecular Glues
LNPs, and Cell & Gene Therapies

SUPPORT VARIOUS INDICATIONS

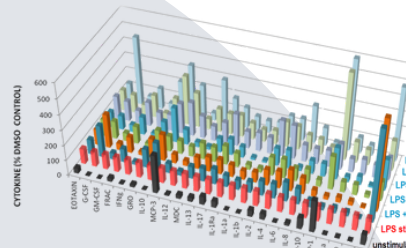
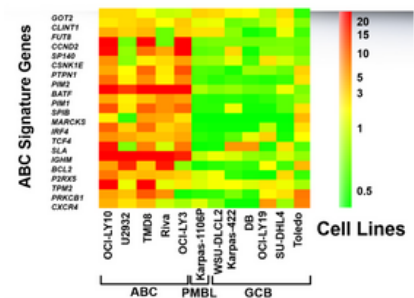
Cancers (Solid & Hematopoietic tumors)
Immunology & Inflammation
Autoimmune, Asthma, Allergy
Neurodegenerative diseases, etc



STATE-OF-THE-ART INSTRUMENTS

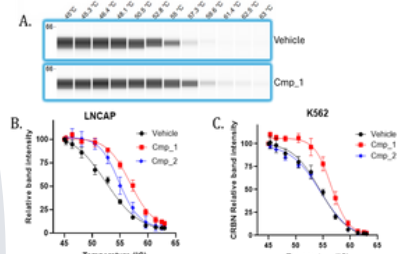


Classification of lymphoma cell lines (QuantiGene Assay)



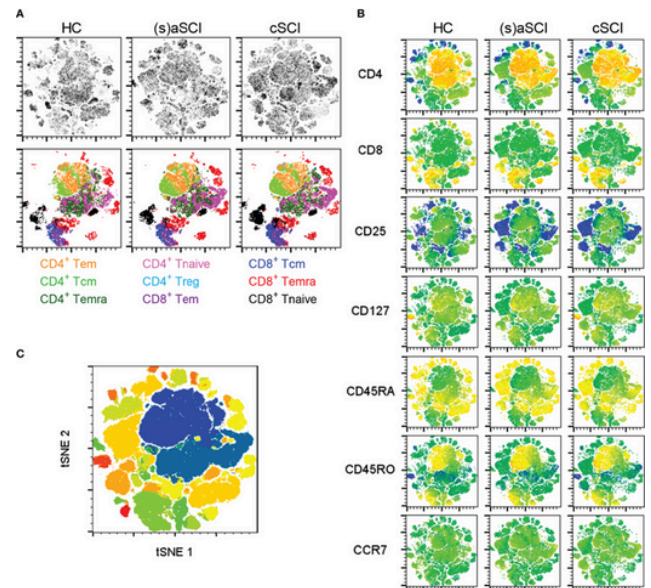
Screening of immunomodulatory compounds (Luminex Multiplex Cytokine Immunoassay)

Simple Western to confirm ligand/target engagement (Cellular Thermal Shift Assay)

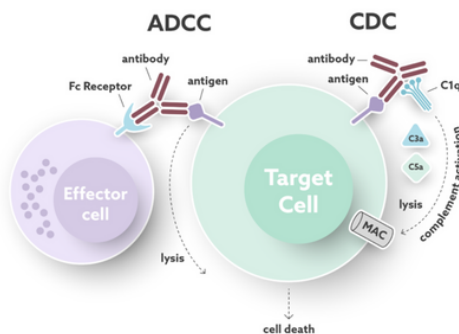


PLATFORM I. HIGH-DIMENSIONAL CYTOMETRY

- Immunophenotyping
- PhosFlow Assay
- Quantification of Antibody Internalization
- Cell Signaling / Calcium Flux
- Multiplex Cytometric Bead Array (CBA)
- Multiplex MicroRNA Profiling
- Multiplex mRNA Assay (PrimeFlow)
- Cell Cycle, Proliferation, Apoptosis, NETosis, Phagocytosis
- Identification of Low Expressed Antigens
- Nano-particle Size Quantification, Cellular Up-take Analysis
- Cell Sorting
- Antibody Labeling
- Receptor Occupancy
- Micronucleus Assay for Genotoxicity



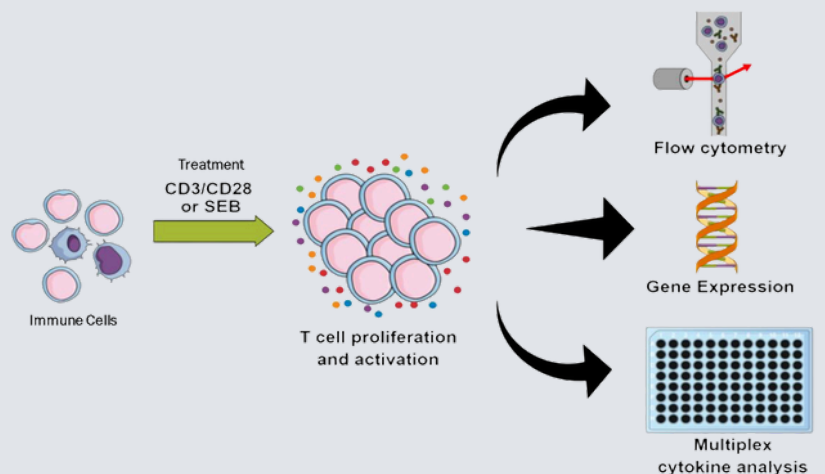
PLATFORM II. SYSTEMATIC IMMUNO-MONITORING



- T Cell Functional Assays
- B Cell Functional Assays
- NK Cell Assays
- Monocyte/Macrophage, & Dendritic Cell Assays
- Mast Cell Degranulation Assays
- Neutrophil, Basophil & Eosinophil Assays
- Immune Cell Mediated Cancer Cell Killing Assays
- Novel Immuno-Oncology Target Screening Assays

Examples:

Tumor Infiltrating Lymphocytes (TIL) Analysis
 PD1/PD1-L Blockade Assay
 IDO-1, 2 Inhibitor Screening Assay
 Immune Checkpoint Molecule Array
 Antibody-Dependent Cell Cytotoxicity (ADCC)
 Complement-Dependent Cytotoxicity (CDC)
 Mast Cell / Eosinophil Degranulation
 Chemotaxis / Migration (T cells, Neutrophils)
 Cytokine Release Syndrome (CRS) Risk Assessment
 Immunogenicity Assessment



PLATFORM III. IHC/IF/ISH, MULTIPLEX STAINING & SPATIAL-OMICS SERVICES

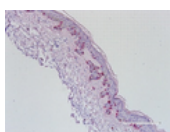
COMPREHENSIVE TISSUE-BASED BIOMARKER DISCOVERY & VALIDATION



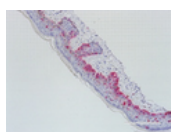
Chromogenic IHC and Multiplex IHC – NeoPATH Pro Autostainer
 Fluorescence IF/ISH and Multiplex IF/ISH – NeoPATH Pro Autostainer
 Automated Digital Scanning – SLIDEVIEW VS200 Whole Slide Imaging Scanner
 Spatial-proteomics/genomics – NanoString GeoMx Digital Spatial Profiler
 AI Assisted Analysis of Spatial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



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

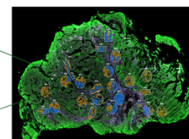


SOX10, Melanoma, 20X



MART1, Melanoma, 20X

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



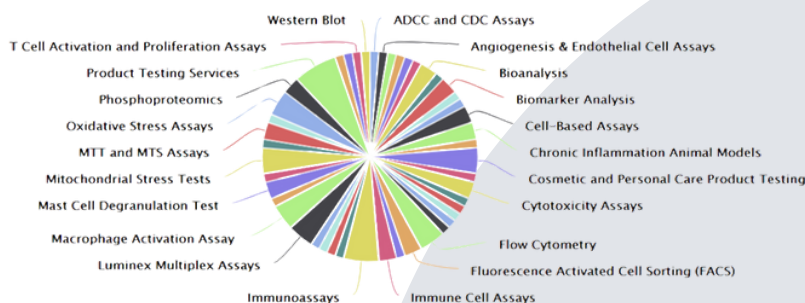
4-TBB, CD11c, CD14, CD163, CD19, CD27, CD3, CD56, CD68, CD80, CD86, CD20, CD3, CD4, CD45, CD45RO, CD68, HLA-D8, Histone H3, ICOS, ICOSL, K1-67, LAG3, OX40, PDL, PDL-L1, PD1, STAT3, STAT3-P, VISTA, B7-1/3 (CD275), B7-1/4, B7-2, Beta-2-microglobulin, Beta-Catenin, CD44, Pan-Cytokeratin, S100B, S6, STING

BUILT ON QUALITY; TRUSTED FOR RELIABILITY



Rated as a Top Performer

Recognized by Science Exchange—trusted by global innovators



Assays Performed at Science Exchanges in 2024

We Can be Reached at



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