



# Discovery Biology & Translational Development

## Partial Bioassay List (Oct, 2024)

### We Focus on Bioassays & Biomarkers

Cancer & Immune  
Cell Assays

Cytometric  
Analysis

Proteomic &  
Genomic Arrays

Multiplex IHC &  
Spatial-omics

Ultra-sensitive &  
Multiplex  
Immunoassays

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Catalog #	Small & Large Molecule Drug Screening
AB-DS-011	Antibody Dependent Cellular Cytotoxicity (ADCC) Assay
AB-DS-012	Complement Dependent Cytotoxicity (CDC) Assay
AB-DS-013	Mixed Lymphocyte Reaction (MLR) Assay
AB-DS-014	Cytotoxic T Lymphocyte (CTL) Assay
AB-DS-015	Immune Checkpoint Blockade Assay
AB-DS-016	Natural Killer (NK) Activity Assay
AB-DS-017	Antibody Affinity Characterization
AB-DS-018	Antibody Heterogeneity
AB-DS-019	Collection of Natural Compounds
AB-DS-020	Cell Proliferation and Survival
AB-DS-021	Cell Apoptosis (PI and Annex-V Staining)
AB-DS-022	Cell Cycle Analysis
AB-DS-023	Kinase Panel Screening and Profilin
AB-DS-024	NanoBRET Intracellular Kinase Assay
AB-DS-025	Fluorescence-Based Phosphatase Activity Assays
AB-DS-026	Fluorescence-Based Phosphatase Activity Assays
AB-DS-027	Targeted Protein Degradation Screening
AB-DS-028	Cell Viability and Cytotoxicity

Catalog #	Cell & Molecular Biology
AB-CM-011	Real-Time RT-PCR (qPCR)
AB-CM-012	TaqMan-Based Low Density (TLD) Gene Cards
AB-CM-013	Fluorescence Microscopy
AB-CM-014	Site-Directed Mutagenesis
AB-CM-015	Reporter Gene Assay
AB-CM-016	Histone Acetyltransferase (HAT) Assay
AB-CM-017	Histone Deacetylase (HDAC) and Sirtuin Assay
AB-CM-018	Epigenetic Screening (multiplex Histone PTM Quantitation Assay)



AB-CM-019	Caspase and Para-caspase Assay
AB-CM-020	Matrix Metalloproteinase Assay
AB-CM-021	Endotoxin/LPS Measurement
AB-CM-022	Cell Culture Contamination Detection for Bacteria and Yeast
AB-CM-023	Cell Culture Contamination Detection for Mycoplasma
AB-CM-024	Multiplex microRNA Profiling
AB-CM-025	Customization of Cell Lines
AB-CM-026	cAMP/cGMP Assay
AB-CM-027	Quantitation of Novel Biomarkers
AB-CM-028	Post-Translational Modification Characterization
AB-CM-029	Phospho-Protein Profiling
AB-CM-030	Peroxide Production Assay (Lipid Peroxidation)
AB-CM-031	Reactive Oxygen Species (ROS) Assay
AB-CM-032	H <sub>2</sub> O <sub>2</sub> -induced Oxidation Assay
AB-CM-033	Autophagy Assay
AB-CM-034	Multiplex Gene Expression Profiling (up to 80-plex)
AB-CM-035	Mitochondrial Stress Assay
AB-CM-036	High Throughput Gene Expression Profiling

Catalog #	Immunology & Immuno-Oncology
AB-IO-011	Antibody Dependent Cellular Cytotoxicity (ADCC) Assay
AB-IO-012	Complement Dependent Cytotoxicity (CDC) Assay
AB-IO-013	Mixed Lymphocyte Reaction (MLR) Assay
AB-IO-014	Cytotoxic T Lymphocyte (CTL) Assay
AB-IO-015	PD-1/PD-1L Blockade Assay
AB-IO-016	Natural Killer (NK) Activity Assay
AB-IO-017	Human Immuno-Oncology Checkpoint Protein Array
AB-IO-018	Flow Cytometric Analysis of Gene Expression (PrimeFlow® RNA Assay)



AB-IO-019	Flow Cytometric Analysis of Tumor Infiltrating Lymphocytes (TIL)
AB-IO-020	ELISpot
AB-IO-021	T cell exhaustion assay
AB-IO-022	Phospho Flow
AB-IO-023	Mast cells, basophil, eosinophil degranulation assay
AB-IO-024	Flow Cytometric for Biomarker Discovery and Validation

Catalog #	Flow Cytometry & Immuno-Monitoring
AB-IO-011	Antibody Dependent Cellular Cytotoxicity (ADCC) Assay
AB-IO-012	Complement Dependent Cytotoxicity (CDC) Assay
AB-IO-013	Mixed Lymphocyte Reaction (MLR) Assay
AB-IO-014	Cytotoxic T Lymphocyte (CTL) Assay
AB-IO-015	PD-1/PD-1L Blockade Assay
AB-IO-016	Natural Killer (NK) Activity Assay
AB-IO-017	Human Immuno-Oncology Checkpoint Protein Array
AB-IO-018	Flow Cytometric Analysis of Gene Expression (PrimeFlow® RNA Assay)
AB-IO-019	Flow Cytometric Analysis of Tumor Infiltrating Lymphocytes (TIL)
AB-IO-020	ELISpot
AB-IO-021	T cell exhaustion assay
AB-IO-022	Phospho Flow
AB-IO-023	Mast cells, basophil, eosinophil degranulation assay
AB-IO-024	Flow Cytometric for Biomarker Discovery and Validation

Catalog #	Bioanalytics & Biomarker Discovery
AB-BA-010	Western Blot (10 KD – 440 KD)
AB-BA-011	Enzyme-Linked Immunosorbent Assay (ELISA)
AB-BA-012	Multiplex ELISA Array
AB-BA-013	DELFI A Immunoassays



AB-BA-014	SIMOA Immunoassays
AB-BA-015	NanoPlex® Gene Array (3 to 80 RNA targets in a single sample)
AB-BA-016	Reverse Phase Protein Array (RPPA)
AB-BA-017	Quantitative, Sandwich-based, Glass Slide Antibody Array
AB-BA-018	Luminex beads-based Immunoassay
AB-BA-019	Simoa (Single Molecule Array)-based Ultrasensitive Immunoassay
AB-BA-020	Nano-Proteomic (NanoPlex®) Immunoassay for Cell Lysates
AB-BA-021	Nano-Proteomic (NanoPlex®) Immunoassay for FFPE tissues
AB-BA-022	Simple Western: Size/MW-Based Assays
AB-BA-023	Simple Western: Charge/pI (IEF)-Based Assays
AB-BA-024	Biomarker Profiling: Acute Phase Response
AB-BA-025	Biomarker Profiling: Allergy / Allergen Testing
AB-BA-026	Biomarker Profiling: Angiogenesis
AB-BA-027	Biomarker Profiling: Apoptosis and Cell Survival
AB-BA-028	Biomarker Profiling: Antibody Isotyping
AB-BA-029	Biomarker Profiling: Autoimmunity And Rheumatology
AB-BA-030	Biomarker Profiling: Autoantibody for Immune Diseases and Cancer
AB-BA-031	Biomarker Profiling: Cancer Growth and Proliferation
AB-BA-032	Biomarker Profiling: Cancer Metastasis
AB-BA-033	Biomarker Profiling: Cardiovascular Disease (CVD Biomarkers)
AB-BA-034	Biomarker Profiling: Cellular Signaling
AB-BA-035	Biomarker Profiling: Circulating Cancer Biomarkers
AB-BA-036	Biomarker Profiling: Diabetes and Obesity
AB-BA-037	Biomarker Profiling: Endocrine (Pituitary, Thyroid, & IGFs)
AB-BA-038	Biomarker Profiling: Inflammation and Cytokines
AB-BA-039	Biomarker Profiling: Immunomodulation
AB-BA-040	Biomarker Profiling: Kidney Toxicity
AB-BA-041	Biomarker Profiling: Liver Injury



AB-BA-042	Biomarker Profiling: Metabolism
AB-BA-043	Biomarker Profiling: Neurodegenerative Diseases
AB-BA-044	Biomarker Profiling: Transcription Factor Activation
AB-BA-045	Biomarker Discovery: Method Development and Validation
AB-BA-046	Biomarker Testing: CLIA Testing
AB-BA-047	Biomarker Development: LDT Development and IVD Submission
AB-BA-048	Biomarker Development: Companion Diagnostics Development and Validation

Catalog #	Oncology & Hematology
AB-OH-011	Angiogenesis Assay
AB-OH-012	Cell Cycle and Mitosis Assay
AB-OH-013	Real-Time Cell Migration and Invasion Assay, ECIS
AB-OH-014	Cell Adhesion Assay
AB-OH-015	Tubule Formation Assay
AB-OH-016	Wound Healing Assay
AB-OH-017	Cancer Stem Cell Assay
AB-OH-018	Mitosis and Tubulin Polymerization Assay
AB-OH-019	In Vitro Kinase Assay
AB-OH-020	Tumor Cell Line Profiling
AB-OH-021	Tumor Autoantibody Profiling: Breast Cancer
AB-OH-022	Tumor Autoantibody Profiling: Lung Cancer
AB-OH-023	Tumor Autoantibody Profiling: Prostate Cancer
AB-OH-024	Tumor Autoantibody Profiling: Ovarian Cancer
AB-OH-025	Reverse phase protein array (RPPA) Array
AB-OH-026	Myeloma Drug Screening
AB-OH-027	Leukemia Drug Screening
AB-OH-028	Lymphoma Drug Screening



Catalog #	Inflammation & Immunology
AB-I&I-011	In Vitro Psoriasis Model
AB-I&I-012	In Vitro Fibrosis Model
AB-I&I-013	In Vitro Dermatitis Model
AB-I&I-014	In Vitro Allergy Model
AB-I&I-015	In Vitro Arthritis Model
AB-I&I-016	Antibody Dependent Cellular Cytotoxicity (ADCC)
AB-I&I-017	Complement Dependent Cytotoxicity (CDC)
AB-I&I-018	Mixed Lymphocyte Reaction (MLR)
AB-I&I-019	Cytokine Production
AB-I&I-020	Nitric Oxide Synthase (NOS) Activity Assay
AB-I&I-021	Cyclooxygenase (COX-1 and COX-2) Activity Assay
AB-I&I-022	T Cell Proliferation / Activation
AB-I&I-023	B Cell Proliferation / Activation
AB-I&I-024	Natural Killer Cell Function Assay
AB-I&I-025	Macrophage Activation Assay (Phagocytosis, Oxidative Burst Assay)
AB-I&I-026	Neutrophil Myeloperoxidase Activity Assay
AB-I&I-027	Neutrophil Elastase Activity Assay
AB-I&I-028	Mast Cell Degranulation Assay
AB-I&I-029	Keratinocyte Activation Assay
AB-I&I-030	Autoimmune Autoantibody Profiling

Catalog #	Animal Models
AB-AM-011	Subcutaneous Xenograft Tumor Models
AB-AM-012	Orthotopic Tumor Models
AB-AM-013	Zebrafish Multidrug Resistance Model
AB-AM-014	Zebrafish Angiogenesis Model
AB-AM-015	Zebrafish Diabetes Model





AB-AM-016	Rodent Collagen-induced arthritis (CIA)
AB-AM-017	Mouse Systemic Lupus Erythematosus (SLE) Model
AB-AM-018	Mouse STZ-induced Diabetes Model
AB-AM-019	Mouse Model for Obesity
AB-AM-020	Rodent Carrageenan-induced paw edema
AB-AM-021	Rodent Adjuvant-induced arthritis (AIA)
AB-AM-022	Mouse Atherosclerosis Model
AB-AM-023	Mouse hypersensitivity (DTH) Model
AB-AM-024	Rodent Model for Inflammatory Bowel Disease (IBD)

Catalog #	3-D Cell/Tissue Culture-Supported Assays
AB-3D-011	3-D Anti-Psoriatic Drug Screening
AB-3D-012	3-D Cancer Cell Viability Assay
AB-3D-013	3-D Spheroid Cell Invasion Assay
AB-3D-014	3-D Tumor Micro-Tissue Assay
AB-3D-015	3-D Anti-Skin Aging Cosmetic Ingredient Screening

Catalog #	NanoString Quantitative Genomics
AB-NC-011	Gene Expression Profiling, Human ADC Development Panel
AB-NC-012	Gene Expression Profiling, Human Autoimmune Profiling Panel
AB-NC-013	Gene Expression Profiling, Human Breast Cancer 360 V2 Panel
AB-NC-014	Gene Expression Profiling, Human Cardiovascular Pathophysiology Panel
AB-NC-015	Gene Expression Profiling, Human CAR-T Panel
AB-NC-016	Gene Expression Profiling, Human Fibrosis
AB-NC-017	Gene Expression Profiling, Human Gene Therapy Optimization Panel
AB-NC-018	Gene Expression Profiling, Human Host Response Panel
AB-NC-019	Gene Expression Profiling, Human Immune Exhaustion Panel
AB-NC-020	Gene Expression Profiling, Human Immunology V2



AB-NC-021	Gene Expression Profiling, Human Inflammation V2
AB-NC-022	Gene Expression Profiling, Human Metabolic Pathways
AB-NC-023	Gene Expression Profiling, Human Myeloid Innate Immunity Panel v2
AB-NC-024	Gene Expression Profiling, Human Neuroinflammation
AB-NC-025	Gene Expression Profiling, Human Neuropathology
AB-NC-026	Gene Expression Profiling, Human Organ Transplant Panel
AB-NC-027	Gene Expression Profiling, Human PanCancer Immune Profiling Panel
AB-NC-028	Gene Expression Profiling, Human PanCancer IO 360 Panel
AB-NC-029	Gene Expression Profiling, Human PanCancer Pathways Panel
AB-NC-030	Gene Expression Profiling, Human PanCancer Progression Panel

Catalog #	Spatial Genomics and Proteomics
AB-SB-011	GeoMx DSP Alzheimer's Pathology Panel – Human Protein Module for nCounter
AB-SB-012	GeoMx DSP Alzheimer's Pathology Panel – Mouse Protein Module for nCounter
AB-SB-013	GeoMx DSP Alzheimer's Pathology Extended Panel – Human Protein Module for nCounter
AB-SB-014	GeoMx DSP Alzheimer's Pathology Extended Panel – Mouse Protein Module for nCounter
AB-SB-015	GeoMx DSP Autophagy Panel – Human Protein Module for nCounter
AB-SB-016	GeoMx DSP Autophagy Panel – Mouse Protein Module for nCounter
AB-SB-017	GeoMx DSP Cell Death Panel – Human Protein Module for nCounter
AB-SB-018	GeoMx DSP Cell Death Panel – Mouse Protein Module for nCounter
AB-SB-019	GeoMx DSP Glial Cell Subtyping Panel – Human Protein Module for nCounter
AB-SB-020	GeoMx DSP Glial Cell Subtyping Panel – Mouse Protein Module for nCounter
AB-SB-021	GeoMx DSP Immune Activation Status Panel – Human Protein Module for nCounter
AB-SB-022	GeoMx DSP Immune Activation Status Panel – Mouse Protein Module for nCounter
AB-SB-023	GeoMx DSP Immune Cell Profiling Panel – Human Protein Core for nCounter



AB-SB-024	GeoMx DSP Immune Cell Profiling Panel – Mouse Protein Core for nCounter
AB-SB-025	GeoMx DSP Immune Cell Typing Panel – Human Protein Module for nCounter
AB-SB-026	GeoMx DSP Immune Cell Typing Panel – Mouse Protein Module for nCounter
AB-SB-027	GeoMx DSP Immune Pathways Panel – Human RNA for nCounter
AB-SB-028	GeoMx DSP IO Drug Target Panel – Human Protein Module for nCounter
AB-SB-029	GeoMx DSP IO Drug Target Panel – Mouse Protein Module for nCounter
AB-SB-030	GeoMx DSP MAPK Signaling Panel – Human Protein Module for nCounter

Catalog #	Olink Proteomic Assays
A-OL-011	Olink Explore HT
A-OL-012	Olink Explore 3072/384 Cardiometabolic Panel
A-OL-013	Olink Explore 3072/384 Cardiometabolic Panel II
A-OL-014	Olink Explore 3072/384 Inflammation Panel
A-OL-015	Olink Explore 3072/384 Neurology Panel
A-OL-016	Olink Explore 3072/384 Oncology Panel
A-OL-017	Olink Target 96 Immuno-Oncology Panel
A-OL-018	Olink Target 96 Biological Process Panel
A-OL-019	Olink Target 96 Cardiometabolic Panel
A-OL-020	Olink Target 96 Cardiovascular Panel II
A-OL-021	Olink Target 96 Cardiovascular Panel III
A-OL-022	Olink Target 96 Neurology Panel
A-OL-023	Olink Target 96 Oncology Panel
A-OL-024	Olink Target 96 Inflammation Panel
A-OL-025	Olink Target 48 Cytokine Panel
A-OL-026	Olink Target 48 Immune Surveillance Panel
A-OL-027	Olink Target 48 Mouse Cytokine Panel
A-OL-028	Olink Flex Inflammation Panel
A-OL-029	Olink Flex Pro-Inflammatory Response Panel



A-OL-030	Olink Flex UKB Type 2 Diabetes Panel
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Catalog#	ADC Development Assays
AB-ADC-011	Linker Design
AB-ADC-012	Linker Payload Synthesis
AB-ADC-013	ADC Bioconjugation
AB-ADC-014	ADC Process Optimization
AB-ADC-015	ADC Purification and Analytics
AB-ADC-016	High Throughput Selectivity and Specificity Testing
AB-ADC-017	Binding Potency Analysis
AB-ADC-018	Binding Residential Time Analysis
AB-ADC-019	Surface Antigen Expression Analysis
AB-ADC-020	Receptor Density Analysis
AB-ADC-021	Internalization Kinetics Analysis via Flow Cytometry or ELISA
AB-ADC-022	Post-Treatment Proliferation Analysis on >300 Individual Cancer Cell Lines
AB-ADC-023	Cancer Cell Panel Screening Across >200 Tumor Types
AB-ADC-024	Cell Killing Analysis (ADCC/CDC)
AB-ADC-025	3D Spheroid Assays
AB-ADC-026	In Vivo Toxicology Analysis Using Xenograft, Syngeneic and Humanized Models
AB-ADC-027	Hollow Fiber In Vivo Models for Candidate Selection
AB-ADC-028	In Vivo DRF Studies
AB-ADC-029	In Vivo GLP Toxicology Studies

Catalog#	Toxicology Assays
AB-TX-011	In Vitro Immunogenicity
AB-TX-012	In Vitro Apoptosis
AB-TX-013	In Vitro Oxidative Stress Response
AB-TX-014	In Vitro Proteotoxic Stress



AB-TX-015	In Vitro Tissue Toxicity
AB-TX-016	In Vivo Toxicology Analysis Using Xenograft, Syngeneic and Humanized Models
AB-TX-017	In Vivo GLP Toxicology Studies

Catalog#	DMPK Assays
AB-DK-011	In Vitro Metabolic stability Analysis
AB-DK-012	In Vitro Drug-Drug Interaction Analysis
AB-DK-013	In Vitro Protein Binding Analysis
AB-DK-014	In Vitro Blood-to-Plasma Partition Analysis
AB-DK-015	In Vitro Caco-2 Permeability Analysis
AB-DK-016	In Vitro Internalization Analysis

Catalog#	Dermatology Assays
AB-DM-011	3-D Anti-Psoriatic Drug Screening
AB-DM-012	3-D Anti-Skin Aging Cosmetic Ingredient Screening
AB-DM-013	In vitro Skin Irritation/Sensitization Testing
AB-DM-014	Atopic Dermatitis Analysis
AB-DM-015	Contact Dermatitis Analysis
AB-DM-016	Skin Inflammation Testing
AB-DM-017	Skin Fibrosis Analysis
AB-DM-018	Skin Graft Analysis



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