

BIOMEDICA AND MULTIPLEXING



Key Areas

- Genomic Multiplexing Technologies
- Proteomic Multiplexing Technologies
- Cellular and Tissue-based Multiplexing Technologies
- Multiplex Service Options

It is more beneficial to study multiple targets for several reasons

- Deeper understanding of the underlying biology
- Increasing the statistical power
- Detecting multiple biological pathways
- Enhanced reproducibility



Genomic Multiplexing Technologies

GENE EXPRESSION MULTIPLEXING

- **nCounter® Pro Analysis System** and **Sprint Profiler** for multiplex analysis of 800+ targets
- **CosMx SMI** provides spatial biology at a cellular and subcellular resolution
- **GeoMx Digital Spatial Profiler (DSP)** for spatial transcriptomics and spatial proteomics

MULTIOMICS REAGENTS

Proteomic Multiplexing Technologies

SAMPLE SCREENING

- **Membrane-based Antibody Arrays** for analysis of up to 274 analytes in various species
- **Cell Surface Marker Assays** for 350 antibodies across 71 profiling subsets

VALIDATION AND OPTIMIZATION

Planar-based Assays

- **Cytokine and Complement System multiplex solutions and instrumentation** for various species and up to 16 analytes

Bead-based Multiplex Assays

- **Flow Cytometry Multiplexing Assays** for up to 24 analytes and multiple species
- **Luminex Multiplexing Assays** for up to 100 analytes including instrumentation and consumables

Highly Automated Platforms

- **Fully Automated Platforms** for cell and gene therapy, production, and your research needs

Pathway and Disease Assays

- **Disease Panel Elisa Sampler Packs**

Cellular and Tissue-based Multiplexing Technologies

IMMUNE RESPONSES

- **FluoroSpot and ELISpot** kits are used to quantify protein-secreting cells and their immune responses
- **Readers** with unparalleled accuracy and speed and a quite unique algorithm

TISSUE-BASED

- **CosMx SMI**
- **GeoMx Digital Spatial Profiler (DSP)**
- **Advanced Cell Diagnostics** - Understand vital gene expression patterns at single-cell resolution

Multiplex Service Options

- **High-quality RNA Services** including RNA extraction, Next generation sequencing (NGS) and RT-qPCR and the custom analysis of microRNA signatures
- **Cytokine and Complement Assay Services**
- **Glycan Profiling Services**
- **Custom Services**

