Precision is custom built to address today’s biomarker needs

Interrogating biological samples drives insight into preclinical and clinical development. Today, the challenge is not only how to select and implement assays with quality and at scale, but also how to manage the vast datasets that are generated to deliver insights and decisions.

From sample handling to specialty assay execution, to advanced biomarker data management and informatics to CDx, Precision is the only company built to address all of these challenges.

Our translational research approach

- Ensuring visibility and integrity of sample from patient to lab, globally
- Comprehensive biomarker assays: DNA, RNA, protein, cell, tissue
- Novel approaches to managing biomarker data and support AI-driven integrated analysis
- CDx Development
Unparalleled global infrastructure

**Logistics**
Real-time sample processing from 55+ countries
- Lab manuals and site training
- Custom kitting
- Transport management
- 24/7 online tracking and reporting

**Processing**
Cell and nucleic acid isolations: ~2 million
- Processing of any tissue type
- Global real-time processing with uniform quality – within 24 hours
- Global PBMC processing 24/7

**Storage**
Samples managed: 25 million
- 77,000 s.f. facility plus global biorepository footprint
- Storage of all tissue types and temperature
- World-class quality standards and certifications (CAP, ISO, GxP)
Renowned scientific expertise to guide biomarker strategy, assay design, and execution

**Biomarker Assays**

**IMMUNE MONITORING**
- Cell-based and molecular phenotyping
- Antigen-specific responses
- Multiplex assays

**TISSUE PROFILING AND LIQUID BIOPSY**
- Comprehensive tissue assays
- Proprietary cell separation technology

**LARGE MOLECULE BIOANALYSIS**
- Renowned expertise
- Commercialization of NAb assays under CLIA (eg, gene therapy)

**ADVANCED BIOMARKER TECHNOLOGIES**
- Custom assay development, validation, and global sample testing under any quality system (GxP, CLIA, ISO)

**Tissue**
- Multiplex IHC with centralized pathology reading
- Quantitative IF – up to 9 concurrent markers
- FISH, ISH, Sequencing
- Flow cytometry – up to 18 color panels, ICS, phospho flow, receptor occupancy
- Functional assays – eg, T-cell activation, ADCC, ELISpot
- Single-cell quantitative image analysis
- Proprietary cell separation technology for CTCs and cfDNA
- Comprehensive large molecule bioanalysis – PK, ADA, NAb)
- Multiplex cytokine profiling, receptor occupancy, tetramer staining
- Custom ligand binding assays – ELISA, MSD, Biacore
- Quantitative image analysis of protein expression (eg, phosphorylation, signaling)

**Cell**
- Gene expression profiling – nanostring
- RNAseq
- rtPCR
- PCR – ddPCR, qPCR
- Immunophenotyping via proprietary epigenetic platform
- Sequencing – whole exome, targeted resequencing

**Protein**

**RNA**

**DNA**
Unraveling biomarker and meta data to generate actionable, analytic-ready data sets

The proliferation of biomarker data has created a massive challenge as teams must compile data sets from multiple labs covering several assay types and multiple time points. Today’s multi-omics approach demands the harmonization of these data sets as well as relevant clinical annotation, powered by machine learning analytics.

**IMMEDIATE APPLICATION**

- Leverage deep domain expertise to harmonize large, complex data types (e.g., flow genomics, expression, imaging)
- Dramatically reduce time to consolidate data from multiple labs for internal analysis - from days or weeks to minutes
- Create analysis- and submission-ready data sets, including CDISC, using a secure, 21 CFR Part 11 compliant infrastructure
- Generate AI-derived signatures across integrated omic data sets with results provided in an intuitive, interpretable, and interactive interface

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**Comprehensive Biomarker Data Ingestion and Harmonization**

**Delivering Translational Solutions**

To learn how Precision can accelerate your decision-making, please email info@precisionformedicine.com.