



Bridge **discovery** & **decision-making** with **actionable omics**.

Sapient generates and interprets *dynamic* omics data to **uncover functional biomarkers that enable you to predict disease, optimize drug response, and de-risk development decisions** for fundamentally better outcomes.

We are helping to decipher the heterogeneity in disease biology and patient response, integrating multiple layers of molecular data for:

Deeper biology.

We go beyond the genome to profile functional biology via **dynamic protein, metabolite, lipid, and cytokine biomarkers – the ultimate effectors of health and disease states**. This bridges the gap between inferred biology and mechanistic understanding.

Smarter decisions.

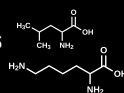
By **identifying actionable biological mechanisms**, we help you accelerate go/no-go decisions and confidently:

- Identify & validate targets
- Stratify patients
- Predict efficacy
- Monitor response

Proteomics & Protein Assays



Metabolomics & Lipidomics



Cytokine Profiling



Multi-Omic Studies



Faster breakthroughs.

Through expert data interpretation, we deliver outputs made to *act on* – **layering omics data to orthogonally validate findings and extend discoveries** with reproducible, multi-modal evidence.



Move **beyond “one gene, one protein, one disease”** frameworks.

Diseases are rarely driven by a single factor, but rather shaped by a complex interplay of genetic and environmental influences. Sapient has developed our next-generation workflows to capture this complexity, allowing us to **analyze individual molecular changes – such as altered proteins or metabolites – within a broader biological context.**

These approaches can identify robust biomarker signatures and entire pathways involved in disease and drug response, enabling **more precise and effective therapeutic targeting.**

Proteomics & Protein Assays

Elucidate functional biology, targets, and the influence of protein variants

Our mass spectrometry-based method combines label-free, DIA workflows with advanced protein extraction and enrichment techniques to maximize proteome coverage across diverse sample matrices.

We offer **both discovery proteomics and single, quantitative assays across >12,000 protein groups, including proteoforms and post-translational modifications (PTMs).**

Metabolomics & Lipidomics

Uncover dynamic downstream effects and physiological states

With high-throughput workflows built upon our proprietary rapid LC-MS (rLC-MS) systems, Sapient enables metabolite and lipid biomarker discovery at an entirely new speed and scale.

We capture **>15,000 small molecule biomarkers across diverse chemistries**, identifying both known and novel molecules of biological significance.

Proteins Measured by Matrix

Tissue / Cell	12,000+
FFPE Tissue	10,000+
Plasma	5,400+
CSF	3,600+
Saliva	6,000+
Urine	4,000+

Metabolites & Lipids Captured

15,000+ assayed per sample including **polar metabolites and polar and non-polar lipids**

Up to 1,400 identified using Sapient's library of **>13,000 reference standards**

Putative identification using database of **>6M MS2 spectra**

Cytokine Profiling

Quantify immune signaling mediators

As an Alamar Certified Service Provider (CSP), Sapien offers **NULISA™ panels and assays for highly quantitative measures of difficult-to-assay, low-abundance proteins** that are important modulators of immune processes.

Move from data to breakthroughs **in weeks**, not months.

We deliver data *and* decision-ready insights, leveraging AI-powered data analysis and our DynamiQ™ Insights Engine to **uncover novel biology and validate findings that differentiate and strengthen your programs.**

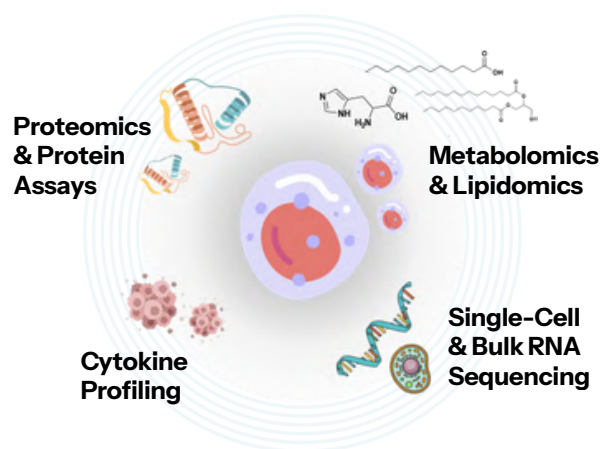
DynamiQ™
INSIGHTS ENGINE

- **>67,000 pre-characterized plasma samples** linked with rich metabolomics, multi-omics, and clinical data
- **Diverse tumor samples** across grades and stages and **normal human tissues** for global differential analyses

Multi-Omic Studies

Bridge inferred and actual biology

We can integrate omics datasets – including from genomics, RNAseq, single-cell sequencing, and spatial profiling – to **improve mechanistic understanding by linking upstream regulation to downstream functional outcomes.**



DynamiQ Applications

Biological Contextualization

We use this large-scale reference dataset to **confirm and contextualize** disease and clinical links of biomarkers observed in your study.



Target Identification

Our tissue and tumor virtual biobank enables rapid discovery and validation of **tractable, disease-modifying targets** (proteins and PTMs).



Virtual Experiments

We offer rapid access to multi-omics data for **biomarker scouting and building foundation models** – without the hurdles of sample collection.



What will our **actionable omics** deliver for you?

More certainty through mechanistic context.

Directly interrogate functional biology that DNA and RNA can only infer – confirming disease and drug response mechanisms to **meaningfully de-risk translation**.

More confidence with reproducible, multi-modal evidence.

Our proven methods deliver **high-precision, tightly QC'ed datasets at scale, across omics workflows** – which can be layered to validate hypotheses and extend discovery.

Decision-ready insights that drive a differentiated advantage.

Our projects include data interpretation to rapidly deliver outputs made to act on, **accelerating your ability to make critical go/no-decisions** and prioritize R&D investments.

Value Across Phases

Enhance **Discovery**

With **broad biomarker coverage** for:

- Target identification
- Pathway mapping
- Early disease detection
- Disease progression biomarkers

De-risk **Translation**

With **functional evidence** for:

- Target engagement validation
- Proof of mechanism
- Forward & reverse translation

Maximize **Clinical Success**

With **robust biomarkers** to optimize:

- Patient stratification
- Treatment response
- Dosing strategies
- Risk profiling



Discover more today.

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