TRANSLATIONAL ONCOLOGY

SAPIENT

FFPE Multi-Omics for Translational Oncology

Rapid **proof-of-mechanism** & **target engagement** insights.

Translational oncology teams must show that **a therapeutic engages its target and modulates downstream pathways** in patient tissue. Yet:

Archival trial biopsies yield **limited molecular data.**

Fresh tissue sampling is impractical for most studies.

Mechanistic and pharmacodynamic (PD) signals are **split across platforms.**

The result?
Uncertainty around proof-of-mechanism and **delayed go/no-go decisions.**

Sapient's **FFPE Multi-Omics Platform** enables **quantitative, translational proteogenomics.**

From a 5 µm FFPE section, Sapient **quantifies >10,000 protein groups, including phospho- and glyco-proteins, splice isoforms, and cleavage variants** – revealing insights into tumor signaling, immune activation, target engagement, pathway modulation, and pharmacodynamic effects with single protein and pathway-level resolution.

Through **Sapient's DynamIQ™ virtual biobank,** we can offer translational teams **streamlined access to thousands of annotated FFPE samples to retrospectively test mechanistic hypotheses or correlate pathway activation** with clinical response.

- **10,000+ protein groups measured,** including phospho- and glyco-proteins, across tissue & tumor types
- Measure of **200+ oncogenes, 500+ approved drug targets,** and **100+ pathways**
- Quantitative measure of **drug tissue distribution**
- **Streamlined access to actionable FFPE tissue and tumor samples** via Sapient's DynamiQ virtual biobank

Multi-omic molecular mapping

Our FFPE proteomics **seamlessly integrates** with other omics offerings available through Sapient, including:

FFPE proteomics for protein expression and pathway activity

FFPE DNA sequencing for mutation and CNV mapping

Single-cell sequencing for cell-type specific expression

Spatial profiling for tissue contextualization

Designed to **accelerate translational oncology,** Sapient's FFPE Multi-Omics Platform provides a **comprehensive molecular map of the tumor, immune, and stromal compartments in one dataset.**

Typical Bottleneck	Sapient Solution	Program Impact
Limited patient tissue	Rapidly access thousands of outcome-linked FFPE tumor samples	**Rapid retrospective validation**
Limited PD measures	Quantitative measure of target pathway activation and modulation	**Functional PD confirmation**
Limited pathway insight	Automated analytics pipelines	**Faster mechanism readouts**
Fragmented omics vendors	Single multi-omic workflow	**Faster integrated insight**

Proceed with **confidence.**

Through deep, quantitative profiling, Sapient's FFPE proteomics enables **comprehensive detection of hundreds of oncogenic and immune signaling pathways**, enabling quantification of target engagement and mechanistic translation with:

- **Confirmation** of pathway modulation
- **Cross-validation in existing FFPE samples** with linked metadata (histopathology, clinical outcomes)

Enable **rapid proof-of-mechanism and earlier dose and target engagement decisions** with Sapient's FFPE Multi-Omics Platform.

For prioritized access opportunities, contact discover@sapient.bio.