

Precision medicine

Strengthen your precision strategy

Integrated solutions to advance biomarker-driven programs



Precision medicine demands precise execution

For sponsors running complex, biomarker-driven trials, success depends on more than scientific promise. Precision medicine requires assays, data, patients and global operations to work as one coordinated system.

The PPD™ clinical research business of Thermo Fisher Scientific connects assay development, clinical delivery, data integration, real-world evidence generation and global execution to advance precision programs from strategy through study delivery. Our integrated ecosystem gives sponsors the coordination, insight and executional confidence needed to move complex programs forward.

Design with the end in mind

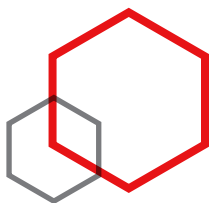
- Biomarker analysis strategy
- Endpoint and evidence planning
- Patient population identification and feasibility

Execute as one connected system

- Global laboratory and operational workflow integration
- Patient recruitment, engagement and retention for biomarker-defined populations
- Clinical, laboratory and real-world data alignment

Optimize continuously with real-time insight

- AI-enabled forecasting and near-real-time monitoring
- Earlier detection of recruitment, site, sample and endpoint risks
- Evidence generation to support development, value demonstration and adoption



Integrated modalities

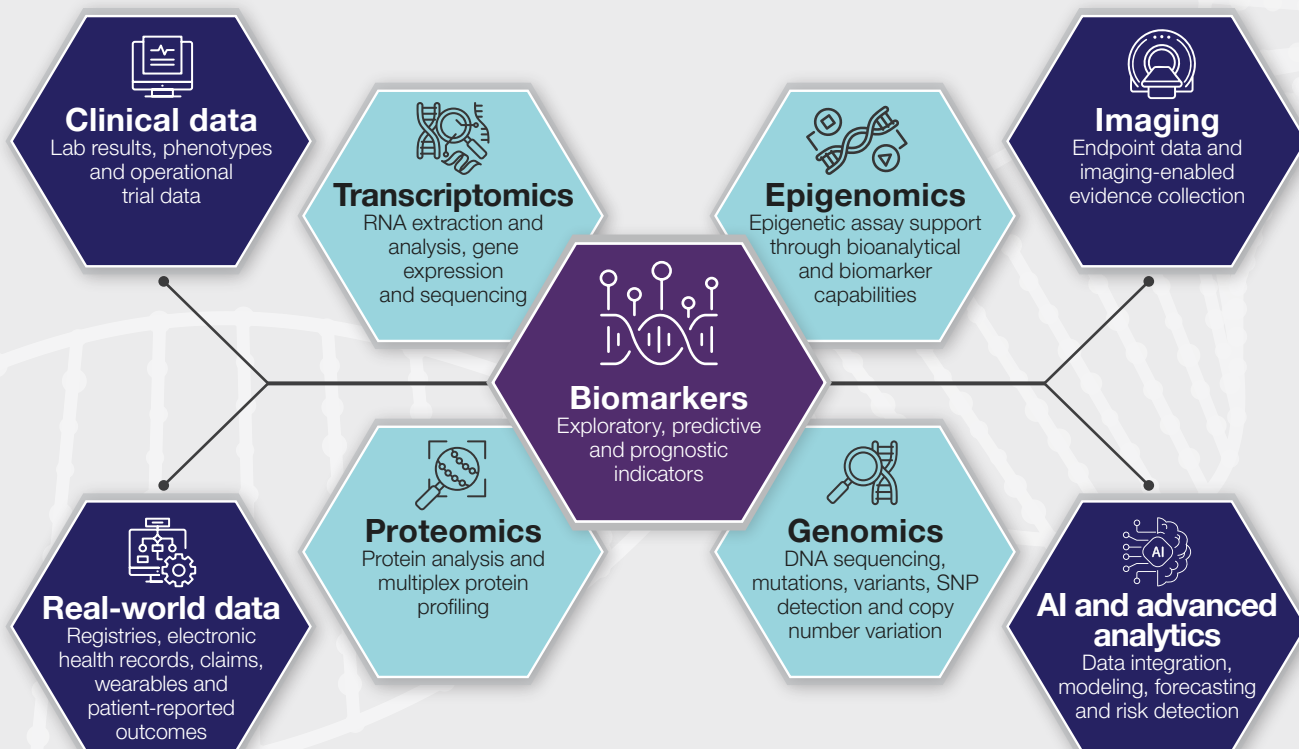
From molecular insight to clinical action

Precision medicine programs generate insight through multiple modalities—from molecular profiling to imaging, clinical data and real-world evidence. Orchestrating them is the key to effective study design, patient selection, endpoint strategy and decision-making.

Our clinical research, laboratory, digital and evidence-generation teams support a broad range of precision medicine modalities across the development life cycle.



Multimodal integration for biomarker discovery and application



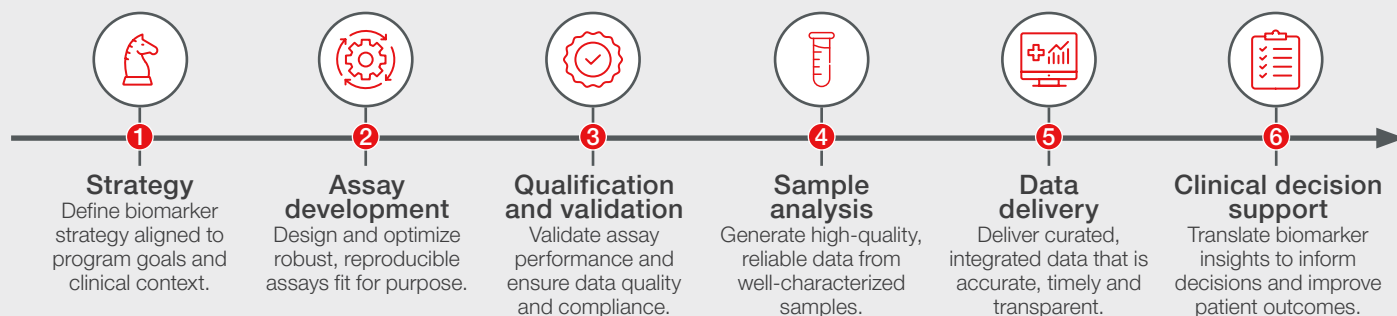
Biomarker and laboratory solutions

Built for complexity, ready for deployment

Biomarker-driven trials require laboratory strategies that move from scientific intent to operational delivery. PPD™ Laboratory services support assay development, qualification, validation and sample analysis across molecular, cellular and protein-based methods.

Biomarker execution continuum

End-to-end expertise. Accelerating insights. Improving outcomes.



Comprehensive laboratory capabilities

Our central lab, bioanalytical lab, biomarker and specialty laboratory capabilities give sponsors a coordinated path from biomarker strategy to global clinical deployment.

- RNA/DNA extraction and analysis
- Viral load testing
- Tumor and companion diagnostics support
- SNP detection and copy number variation
- Gene expression and next-generation sequencing (NGS)
- Epigenetics
- LC-MS, and multiplex and high-sensitivity techniques such as Olink® NGS-based approaches and NULISA™ Platform*
- Immunoassays, conventional and spectral flow cytometry

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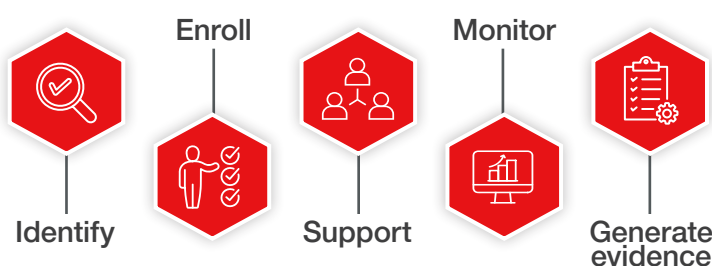


Find the right patients, design the right studies and generate the right evidence

Precision medicine development depends on identifying, engaging and generating evidence in narrowly defined patient populations. As eligibility criteria become more specific, sponsors face increasing challenges with trial feasibility, site selection, patient recruitment and retention, complex tissue sampling logistics, testing turnaround times and the real-world evidence expectations of regulators, payers and providers.

Success requires an integrated strategy that connects patient identification, study design, clinical operations and evidence generation from the start. Tools such as NGS, molecular profiling, imaging, clinical data and real-world evidence enable sponsors to better characterize target populations and inform biomarker-driven trial design. When orchestrated effectively, these capabilities support more precise patient selection, efficient enrollment and evidence strategies that are aligned to clinical, regulatory and market access objectives.

Our integrated patient recruitment, clinical operations and real-world evidence teams translate these insights into action—optimizing study design and execution, accelerating enrollment and generating decision-grade evidence to support your development and commercialization goals.

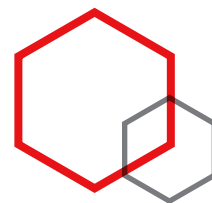


RWD-enabled development and execution

- Biomarker-informed feasibility and site selection
- Data-driven patient identification and recruitment
- Patient-centered engagement and retention
- Patient first digital and decentralized solutions
- Registry and patient-generated data collection
- Real-world evidence generation and value demonstration

Processes designed around the patient

Precision medicine studies often place greater demands on patients and caregivers. Integrated support helps reduce participation barriers, improve continuity and strengthen retention throughout the study journey.



One coordinated partner for your precision medicine program

Precision medicine works best when scientific strategy, clinical execution, laboratory testing, data integration and evidence generation are connected from the start. Our integrated ecosystem spans oncology precision medicine, neuroscience precision medicine, cell and gene therapy, laboratory services, patient recruitment, real-world evidence, imaging, AI-enabled analysis, and global clinical operations.

Through the broader capabilities of Thermo Fisher Scientific, sponsors gain global scale, specialized expertise and data-driven, end-to-end support while maintaining focus on the scientific questions that matter most.

Clario, now part of Thermo Fisher Scientific, enables digital endpoint data collection and analysis of clinical evidence across all phases of development.

Let's connect

From biomarker strategy to patient enrollment, and from laboratory execution to evidence generation, our teams orchestrate the right scientific, operational and data capabilities to move your precision medicine programs forward. Reach out to discuss the possibilities with our experts.



 Learn more at ppd.com/precisionmedicine

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