

# Covance Biomarker Services

EXPERT GUIDANCE, COMPREHENSIVE CAPABILITIES



*Helping to bring miracles to market sooner.*

**COVANCE**  
THE DEVELOPMENT SERVICES COMPANY

## A biomarker strategy, applying biomarkers to optimize drug development

Biomarkers are an essential part of drug development.

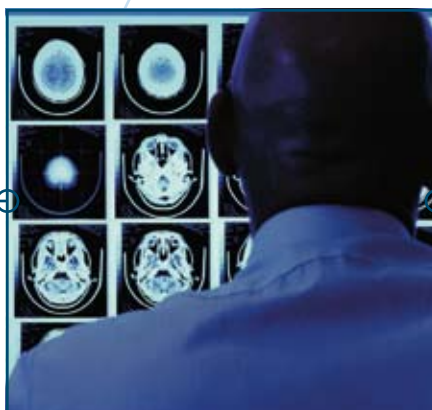


Whether used as part of preclinical studies, late stage clinical trials or throughout the development continuum, biomarkers can help increase the speed and reduce the costs of reaching key milestones. In some cases biomarkers can even stand as a surrogate endpoint during the drug development process.

Covance is the world's largest biomarker testing company for drug development, and also provides biomarker assay development and validation.

With our biomarker expertise, flexibility and full range of technology platforms, we can help you apply biomarkers to:

- Prove safety and assess toxicity
- Enable faster go/no-go decisions
- Predict clinical benefit when used as surrogate endpoints
- Drive patient selection and stratification
- Prove patient response and efficacy
- Generate data to support regulatory submissions

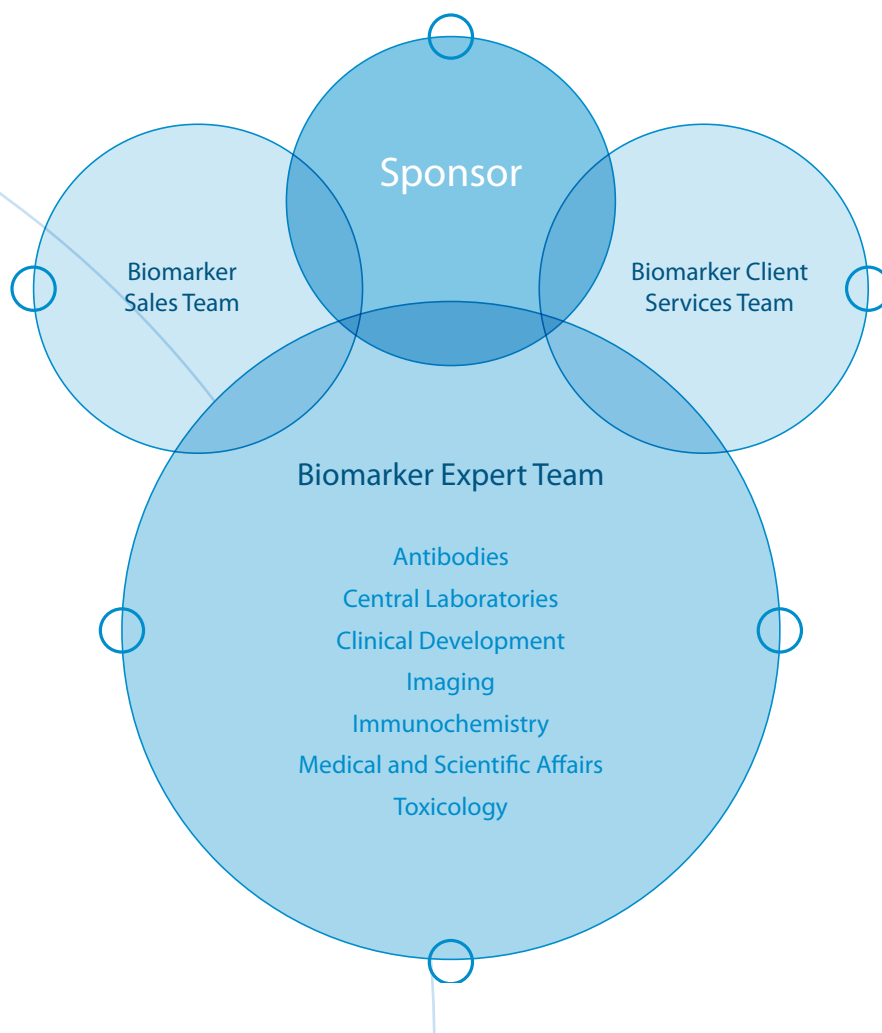


## An expert team, unparalleled access to biomarker guidance

Covance has harnessed our significant experience and expertise and built a scientific expert team to support your biomarker programs.

With experience encompassing all phases of drug development, our team can provide guidance on issues that range from assay development and validation to biomarker testing.

Recognizing the importance of cross discipline communications, we've organized our entire team so that you have easy, direct access to specific scientific knowledge and collaboration when you need it.



## A full range of technology platforms, flexibility to meet your needs

The complexity of systems biology has driven the need for many different biomarkers, sometimes pursued simultaneously during drug development.



Covance offers a comprehensive portfolio of technology platforms to accommodate virtually all of your biomarker testing requirements.

We provide clients with flexibility in choosing from assays commercially available or developed by you. We can also work with you to develop and validate a custom assay based on your discovery.

Biomarker technology platforms include:

### Genomics

- DNA and RNA aliquotting and storage
- SNP detection
- Viral genotyping
- RNA expressions
- Quantitative PCR (QT-PCR)
- Qualitative PCR

### Chromatography

- HPLC
- UPLC
- GC
- GC/MS
- LC/MS
- LC/MS/MS

### Imaging

- Bioimaging

### Proteomics

- Immunoassay (e.g. MSD)
- Immunohistochemistry
- ELISA
- Automated
- Multiplexed assays



## Our experience and regulatory compliance, combined to deliver confidence

Covance conducts more biomarker tests for our clients each year than any other service provider in the world, and we've been doing so for more than 20 years.

Our global laboratories:

- Conduct over 30 million tests per year
- Offer a broad menu of over 400 safety and esoteric biomarker assays
- Manage over 1 million specimen shipments per year in over 100 countries around the world

Depending on the specific test and the test model, our clients can feel confident that our services are conducted under the appropriate regulatory guidelines, including:

- GLP
- GLP-like
- CLIA
- CAP
- CDC
- NGSP
- NY State
- GCP
- ICH
- OECD



## Near real-time data access, tools to support rapid decision making

When you place your biomarker program with Covance, you'll save time and costs by working with a single service provider, no matter where you're located.



You can access our network of scientific and operational professionals in 100 countries around the world. With our global presence, we've developed valuable services such as our global sample management program and web-based data tracking systems.

### Global sample management

**Kits** – we'll produce, ship and track your patient kits globally.

**Analysis** – we can pull your samples out of any site in the world and send them to one of our laboratories for analysis.

**Logistics** – our LabLogistics® consulting tool enables us to help you select the best and most cost-effective couriers for a given country or specimen type.

### Data access from almost anywhere

With our web-based, near real-time monitoring tools, you will always be kept up to speed on all activities related to your biomarker program. Our tools use industry standard web browser access from anywhere in the world. Communicate with Covance staff, and view or transfer files securely with 128-bit encryption and secure user identification.

**LabLink®** – for access to your central laboratories data.

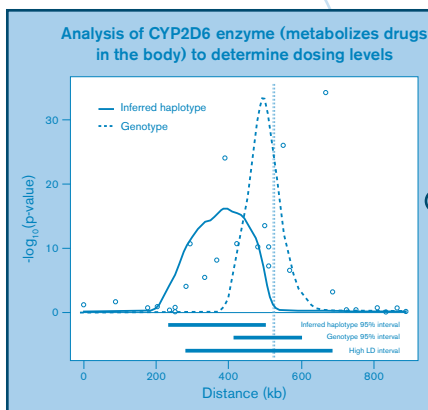
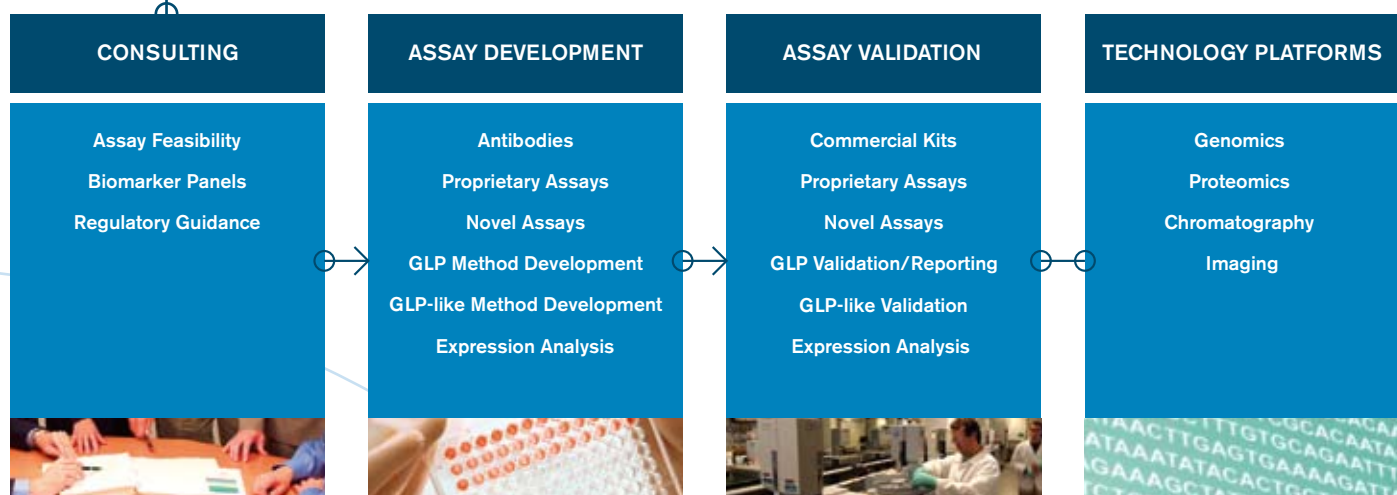
**StudyTracker®** – for access to your bioanalytical and toxicology data.

**TrialTracker®** – for access to your clinical trial data.



## Comprehensive capabilities, your entry to the biomarker development continuum

Covance offers a full complement of biomarker development services for our clients.





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