



## Bioanalysis | Spotlight

# Precision medicine and companion diagnostics

## Key trends in precision medicine & companion diagnostics

#### Important patient factors to consider during drug and therapy development included:



26%



4%



Genetics 32%



Medical history

10%

Lifestyle

27%



Other 1%

#### The top three goals of precision medicine included:

Disease biology Environmental

Disease prevention **43%** 

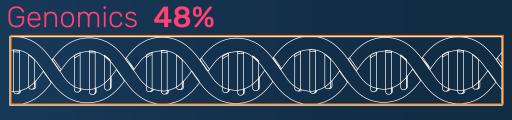
#### Individual response to therapy 11%

Treatment targeted to individual needs **46%** 

How often are precision medicine and companion diagnostics practices implemented?



The most commonly used technologies included:



Molecular imaging 32%



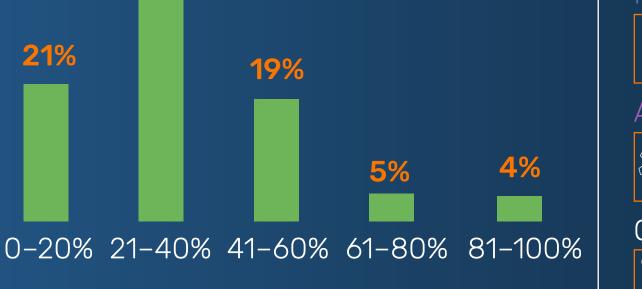
## Nanotechnology 22%

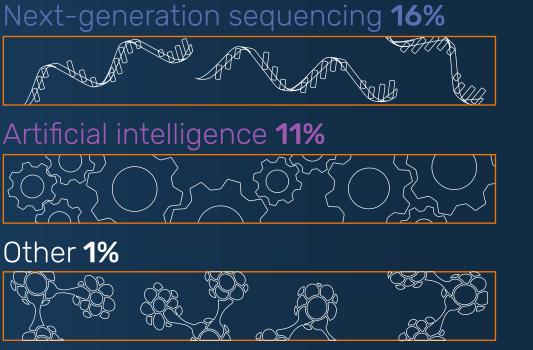




#### Metabolomics 18%

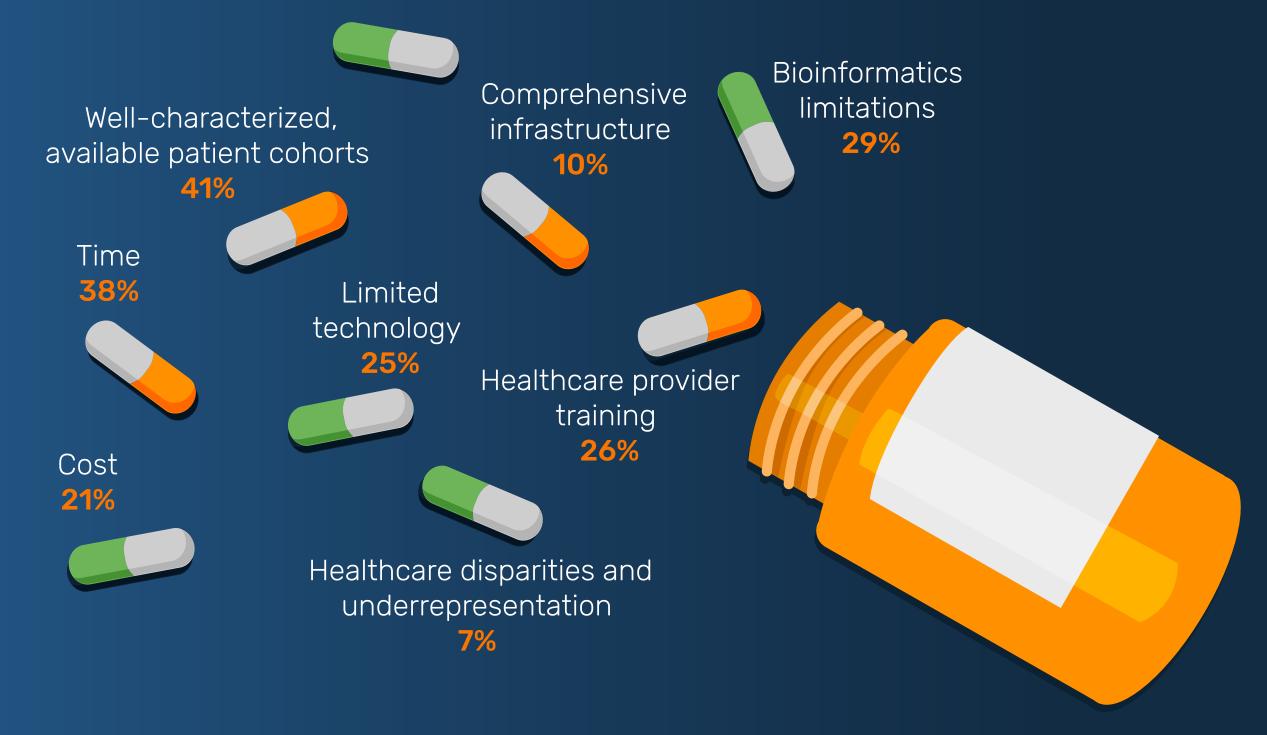






## **Challenges of precision medicine and** companion diagnostics

#### The main challenges of challenges of implementing precision medicine practices included:



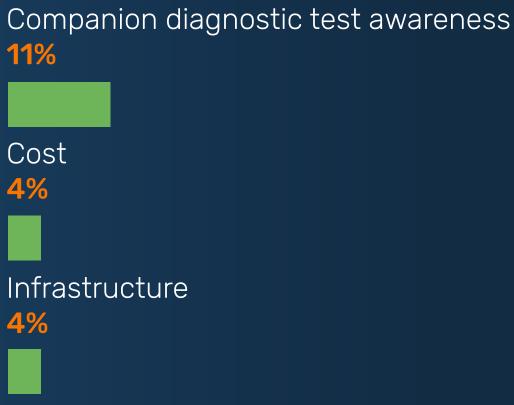
#### When might laboratory developed tests be used over companion diagnostics?

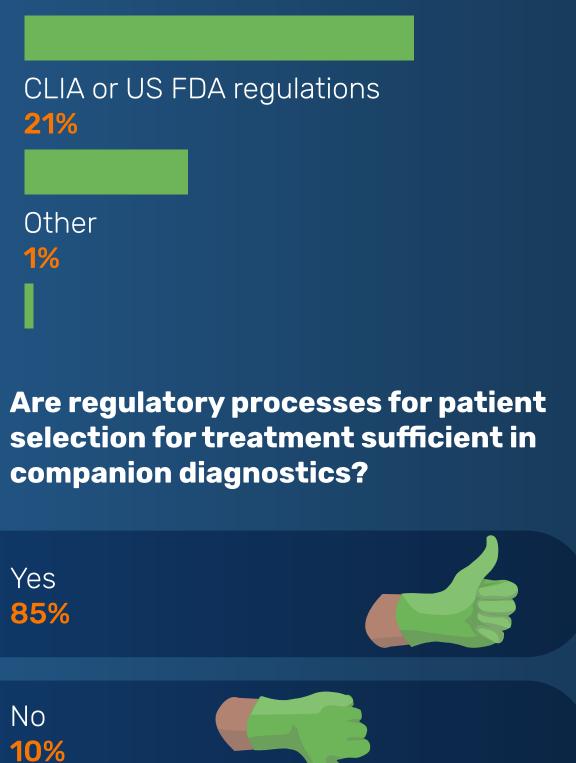
Mitigate financial investment 28%

Mitigate time investment **55%** 

Lack of surety about drug or therapy efficacy **45%** 

#### The main challenges to implementing companion diagnostics tests in the marketplace included:





**Regulatory requirements** 10%

Specimen needs and sample stability 20%

Therapy options 24%

Time to treatment **15%** 

Workflow 11%

Other

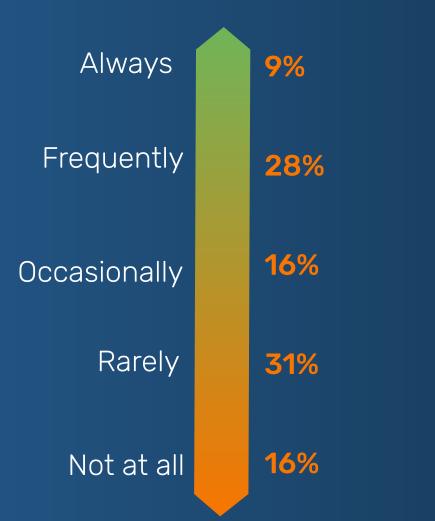
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What does the future hold for precision medicine and companion diagnostics?

In the last 5 years, how often were precision medicine and companion diagnostic practices implemented?

Unsure

**5%** 



In the next 5 years, precision medicine and companion diagnostic practices will...



## **Demographic of respondents**

