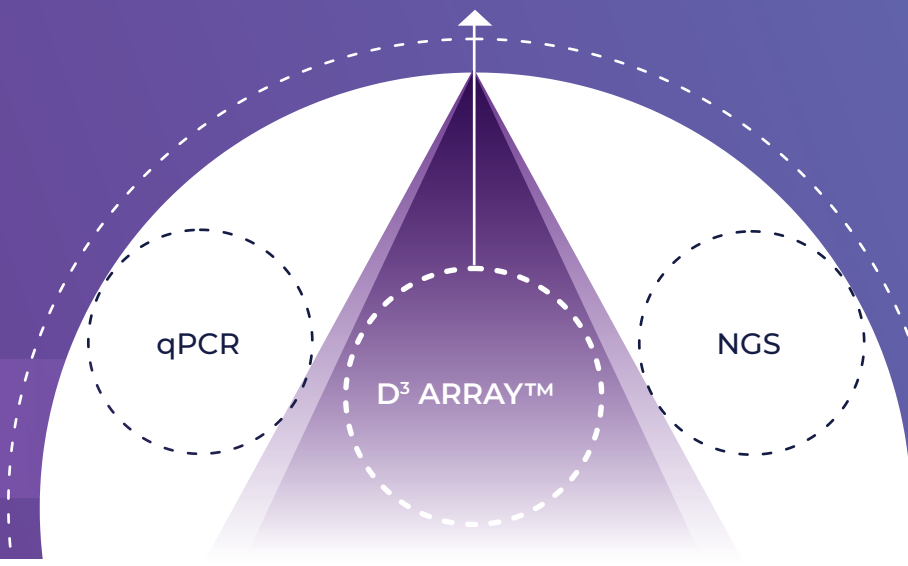


# FILLING THE DIAGNOSTICS TECHNOLOGY GAP



Proprietary technology creating a 3D molecular binding architecture that transforms DNA binding and target detection.



## DYNAMIC DIMENSIONAL DETECTION

Today, diagnostic pathogen testing is primarily conducted through qPCR (quantitative polymerase chain reaction) and NGS (next-generation genomic sequencing). Yet there are instances better addressed by microarray technology that exceeds the sensitivity and multiplex limitation of qPCR and improves on the cost and timeliness of NGS. Meet PathogenDx D<sup>3</sup> Array™.

### D<sup>3</sup> DYNAMIC DIMENSIONAL DETECTION TECHNOLOGY SNAPSHOT

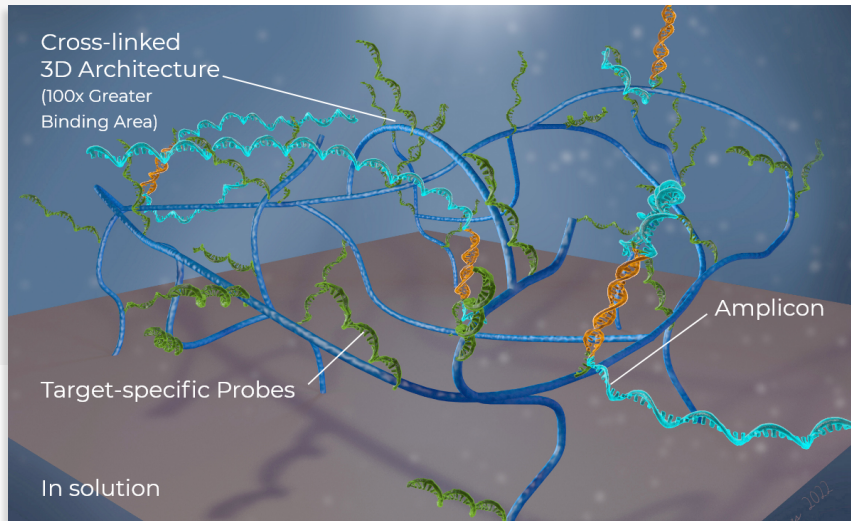
Up to  
**100**  
targets

● **Single-**  
gene Copy  
Sensitivity

● **3X**  
testing for specific  
targets in triplicate.

#### 3D OPEN WEAVE POROUS STRUCTURE:

with probes suspended away from the surface solution, increases access and allows for a faster and higher affinity target amplicon binding reaction.



## D<sup>3</sup> ARRAY™ USE CASES

- You know what targets and sequencing level is required.
- Multiple PCR reactions are not cost competitive.
- You need more sensitivity than qPCR can provide.
- Multiple pathogens, speciation or variant detections is needed.
- Semi-quantitation is needed.
- High-efficiency, lower-cost economies of scale are required.

#### qPCR

A well-established and proven approach—but becomes increasingly complex, costly and time consuming as the number of targets increase.

#### D<sup>3</sup> Array™

Dynamic Dimensional Detection Array is more flexible, rapid and lower cost than a series of qPCR/PCR assays and much faster and less complex than NGS. Readily adaptable to high throughput 96-well plate processing from sample to answer.

#### NGS

Growing in popularity as prices decrease, but this research tool is too slow and expensive for many situations.

High Cost, Rapid

High Cost, Slow

### NEXT-GEN MICROARRAYS FOR BETTER HEALTH AND SAFETY

PathogenDx is a biotechnology innovator based in Tucson, Arizona, developing diagnostic solutions to address viral, bacterial and fungal infection or contamination. We've reinvented molecular testing to identify pathogens faster and easier, driving greater safety and business optimization. We deliver next-gen arrays for better health and safety—empowering the future of safe.

LEARN MORE

[info@pathogendx.com](mailto:info@pathogendx.com) | (800) 641-5751

