

Targeted Gene Panels

Overview

- Sequence specific set of genes related to condition
- Highly focused - typically 10-500 genes
- Very high coverage for selected regions (>500X)

Common Panel Types

Cancer

50-500 genes

Oncology hotspots

Cardio

50-200 genes

Heart conditions

Neuro

100-300 genes

Epilepsy, ataxia

Advantages

- Cost-effective (\$100-300)
- Very high depth
- Faster turnaround
- Detect low-frequency variants

Use Cases

- Hereditary cancer screening
- Pharmacogenetic testing
- Carrier screening
- Targeted diagnostics

Best for known genes associated with specific phenotypes