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Hybridization Capture
vs. PCR Amplification -
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A Comparison of Two
Enrichment Strategies in
NGS Get on target:

How individually
synthesized capture
probes will enrich your
NGS experiments

Hybrid Capture ~~What is
the difference between
hybrid capture and
multiplex PCR?~~

ONETest

PathoGenome: A Target
Hybridization-Based

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Tackle.. SureSelect:
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October feature and
product updates 2) ~~Next
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(NGS) Sample
Preparation~~

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the perfect
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~~Introduction to Next
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Hybridization Next
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Workflow of Whole
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Hasselblad, Pentax
Making Image Gold
Molecular Diagnostics
Hybrid Capture 2
Valence Bond Theory,
Hybrid Orbitals, and
Molecular Orbital
Theory Optimized
Target Enrichment

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Workflow for Next-
Generation Sequencing

~~A Hybridization~~

~~Capture-Based Next~~

Targets (MSK-

IMPACT), a

hybridization capture-

based next-generation

sequencing assay for

targeted deep

sequencing of all exons

and selected introns of

341 key cancer genes in

formalin-fixed, paraf n-

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Hybridization
embedded tumors.
Barcoded libraries from
patient-matched tumor
and normal samples
were captured,

~~A Hybridization
Capture Based Next
Generation Sequencing~~

...

Hybridization capture,
also called target
enrichment, is a method
of targeted next

Get Free A Hybridization capture based generation sequencing (other methods of targeted sequencing can include the use of

amplicons or molecular
inversion probes).

Before hybridization
capture is performed,
DNA samples are
converted into
sequencing libraries. To
create libraries, the
DNA is randomly
sheared into smaller

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Hybridization
fragments by
mechanical or
enzymatic methods, and
sequencing adapters are
added.

~~Targeted next
generation sequencing
by hybridization ...~~

Hybridization capture-
based next generation
sequencing reliably
detects FLT3 mutations
and classifies

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FLT3-internal tandem
duplication allelic ratio
in acute myeloid
leukemia: a comparative
study to standard
fragment analysis. He R
(1), Devine DJ (2), Tu
ZJ (3) (4), Mai M (2),
Chen D (2), Nguyen PL
(2), Oliveira JL (2),
Hoyer JD (2), Reichard
KK (2), Ollila PL (2),
Al-Kali A (5), Tefferi A
(5), Begna KH (5),

Get Free A Hybridization Patnaik MM (5), Alkhateeb H (5), Viswanatha DS (2). Next Generation Sequencing

~~Hybridization capture-
based next generation
sequencing ...~~

Next-generation
sequencing
hybridization-based
capture is an approach
directly applied after
nucleic acid extraction
and library preparation

Get Free A Hybridization (Figure 1). Capture Based Next Generation Frontiers | Hybrid Capture Based Next Generation ...

Hybridization-based
Next Generation
Sequencing (NGS)
Hybridization Capture-
based Target
Enrichment for NGS
Targeted sequencing
provides a time and cost-
effective workflow by

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investigating specific regions in the genome. Hybrid capture-based target enrichment employs probes to capture target sequences in a NGS library.

~~Hybridization Capture-based Target Enrichment for NGS ...~~

Hybridization capture-based next-generation sequencing, with

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Hybridization
genomic DNA as
starting material, was
used to sequence the
whole NF1 gene (exons
and introns) from 11
unrelated individuals
and 1 relative, who all
had NF1. All of them
met the NF1 clinical
diagnostic criteria. We
showed a mutation
detection rate of 91%
(10 out of 11).

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~~Hybridization Capture-
Based Next Generation
Sequencing to ...~~

To enable precision oncology in patients with solid tumors, we developed Memorial Sloan Kettering-Integrated Mutation Profiling of Actionable Cancer Targets (MSK-IMPACT), a hybridization capture-based next-generation

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sequencing assay for
targeted deep
sequencing of all exons
and selected introns of
341 key cancer genes in
formalin-fixed, paraffin-
embedded tumors.

~~Memorial Sloan
Kettering Integrated
Mutation Profiling of ...~~
Hybridization-based
Next Generation
Sequencing (NGS)

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Hybridization Capture-
based Target
Enrichment for NGS
Targeted sequencing
provides a time and cost-
effective workflow by
investigating specific
regions in the genome.
Hybrid capture-based
target enrichment
employs probes to
capture target sequences
in a NGS library.

Get Free A Hybridization ~~Capture-Based Next Generation Sequencing (NGS)~~

Hybridization capture works well for genotyping and rare variant detection. It is the method of choice for exome sequencing and is commonly used in oncology research, both for discovery and diagnostics. Amplicon sequencing is used for

Get Free A
Hybridization
capture based
sequencing and for
detection of germline
SNPs, indels, and
known fusions.

~~Hybridization capture vs
amplicon sequencing |
IDT~~

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~~A Hybridization
Capture Based Next
Generation Sequencing~~

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A recent study that compared these two types of methods head-to-head indicates that amplicon-based approaches may be preferable for their simplified workflow and smaller amounts of required DNA. 12

However, hybridization-based strategies are less likely to miss mutations and also perform better

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Hybridization
with respect to
sequencing complexity
and uniformity of
coverage.12, 13, 14

~~Assessment of Capture
and Amplicon Based
Approaches for ...~~

We developed a hybrid
capture-based next-
generation sequencing
assay for genomic
profiling of circulating
tumor DNA from blood

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Hybridization
(FoundationACT).
Next Generation
~~Analytical Validation of
a Hybrid Capture-Based
Next ...~~

We developed a hybrid capture-based next-generation sequencing assay for genomic profiling of circulating tumor DNA from blood (FoundationACT).

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~~a Hybrid Capture-Based~~
~~Next ...~~
Next Generation
Hybridization-based
Next Generation
Sequencing (NGS)
Hybridization Capture-
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Enrichment for NGS
Targeted sequencing
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effective workflow by
investigating specific
regions in the genome.
Hybrid capture-based

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Hybridization
capture enrichment
employs probes to
capture target sequences
in a NGS library.

~~NGS Automation
Platforms | Agilent~~
Hybrid Capture-based
Enrichment can
interrogate significantly
large target regions (up
to a human whole-
exome), making it a
good option for broader

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scoped research and
discovery projects. It
should be noted that this
method tends to have a
low on target-rate on
smaller panels due to its
inherent lower
specificity of
hybridization probes.

~~Target Sequencing: Use
Our Next Generation
Technology~~
Hybridization-based

Get Free A Hybridization Next Generation Sequencing (NGS) Hybridization Capture- based Target

Enrichment for NGS
Targeted sequencing
provides a time and cost-
effective workflow by
investigating specific
regions in the genome.
Hybrid capture-based
target enrichment
employs probes to
capture target sequences

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Hybridization
in a NGS library.
Next Generation
~~RNA-Seq Library
Preparation Kits |~~

~~Agilent~~

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Hybridization Capture-
based Target
Enrichment for NGS
Targeted sequencing
provides a time and cost-
effective workflow by

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investigating specific regions in the genome. Hybrid capture-based target enrichment employs probes to capture target sequences in a NGS library.

~~Exome Probes | Agilent~~

The nuclease hybridization assay, also called S1 nuclease cutting assay, is a nuclease protection

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assay -based
hybridization ELISA.
The assay is using S1
nuclease, which
degrades single-stranded
DNA and RNA into
oligo- or
mononucleotides,
leaving intact double-
stranded DNA and
RNA.

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