# A Hybridization Capture Based Next Generation Sequencing

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**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-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 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 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 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), Patnaik MM (5), Alkhateeb H (5), Viswanatha DS (2).**

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

**Next-generation sequencing hybridization-based capture is an approach directly applied after nucleic acid extraction and library preparation (Figure 1).**

**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**

**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 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).**

**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 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 ...**

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**Hybridization-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 genotyping by 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**

**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 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 (FoundationACT).**

**Analytical Validation of a Hybrid Capture–Based Next ...**

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**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 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**

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**RNA-Seq Library Preparation Kits | Agilent**

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**Exome Probes | Agilent**

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