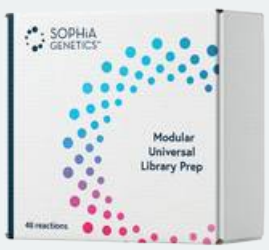
SOPHiA GENETICS™

Fast · Accurate · Affordable

Genomic workflows powered by **Element AVITI™** and **SOPHiA DDM™**

By bringing together Element's advanced sequencing technology with the SOPHiA DDM™ Platform, you unlock a seamless path from data generation to AI-driven insights. This powerful combination delivers accuracy, scalability, and streamlined genomic workflows, empowering you to accelerate discoveries with confidence for Oncology and Rare & Inherited Disorders.

SOPHiA GENETICS™



Universal Library Prep **(ULP)**

Element Biosciences



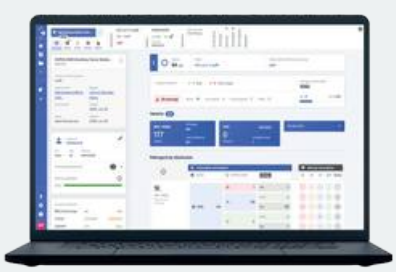
ULP can be used across all SOPHiA DDM™ applications

For example

GERMLINE
Clinical and whole exomes, pharmacogenomics (PGx)

SOMATIC
MSK-ACCESS®, Homologous recombination deficiency (HRD), MSK-IMPACT®

Analysis **POWERED by** SOPHiA DDM™



Variant Detection & Annotation



Variant Interpretation



Reporting

Advanced accuracy
Achieve high sensitivity, precision, coverage uniformity, and on-target rates

Decentralized analysis
Maintain control of samples and data by bringing data analysis in house

Unrestricted scalability
Process any size dataset with an adaptable sequencer and platform architecture

> *"We're thrilled to bring the full power of SOPHiA DDM™ to Element customers, unlocking new possibilities in data-driven precision medicine*
>
> SOPHiA GENETICS™

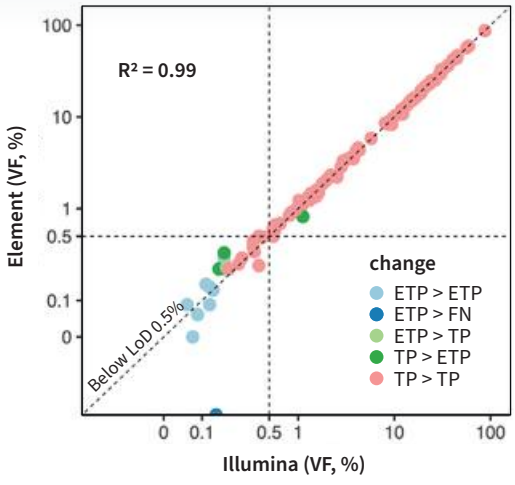
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The evaluation of SOPHiA DDM™ pipelines with sequencing data from both Illumina and Element AVITI confirmed robust analytical performance.

- High read quality
- Low off-target rates
- High coverage uniformity
- High reproducibility between sequencers

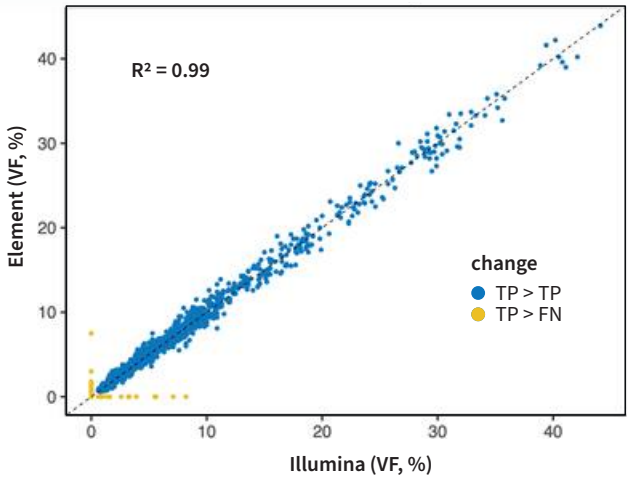
Reliable variant calling across sequencing platforms and NGS applications

MSK-ACCESS® powered with SOPHiA DDM™



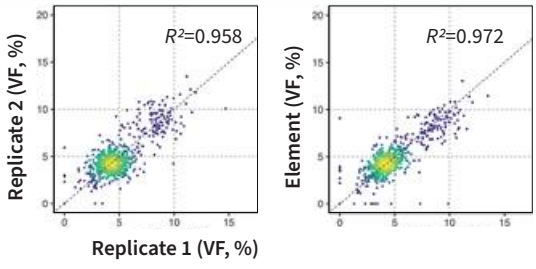
Highly consistent variant fractions for known variants in clinical samples (n = 24) sequenced on Illumina Novaseq X and Element AVITI. ETP, expected true positive; FN, false negative; TP, true positive; VF, variant fraction.

SOPHiA DDM™ HRD solution



Highly consistent variant fractions in Horizon HD200 reference standard (1-40% VF; n = 40) sequenced on Illumina NextSeq 2000 and Element AVITI at 2-4% VF with >99% sensitivity.
VF, variant fraction.

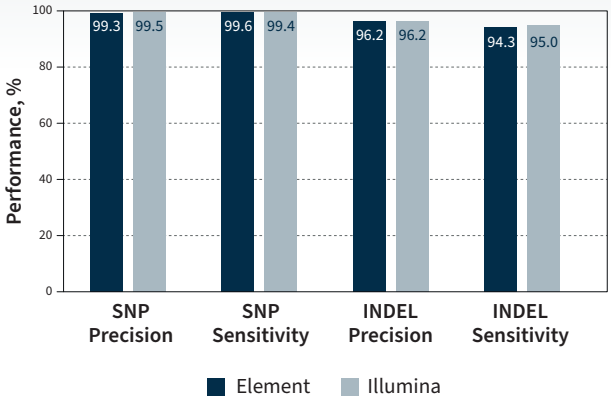
MSK-IMPACT® powered with SOPHiA DDM™



Sequencer	Sensitivity
Element	95.8%
Illumina	95.5%

Highly consistent variant fractions in an FFPE reference sample at 5-10% VF between replicates 1 and 2 sequenced on Element AVITI (left) and replicates sequenced on Illumina NovaSeq X and Element AVITI (right). FFPE, formalin-fixed paraffin-embedded; VF, variant fraction.

SOPHiA DDM™ Clinical Exome Solution v3



Robust performance metrics for confirmed variants in SeraSeq® inherited cancer DNA mix v1 (7531 SNPs, 253 INDELs) sequenced on Illumina NextSeq 2000 and Element AVITI.
INDEL, insertion or deletion; SNP, single nucleotide polymorphism.

WANT TO KNOW MORE ? Contact us at → info@sophiagenetics.com

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