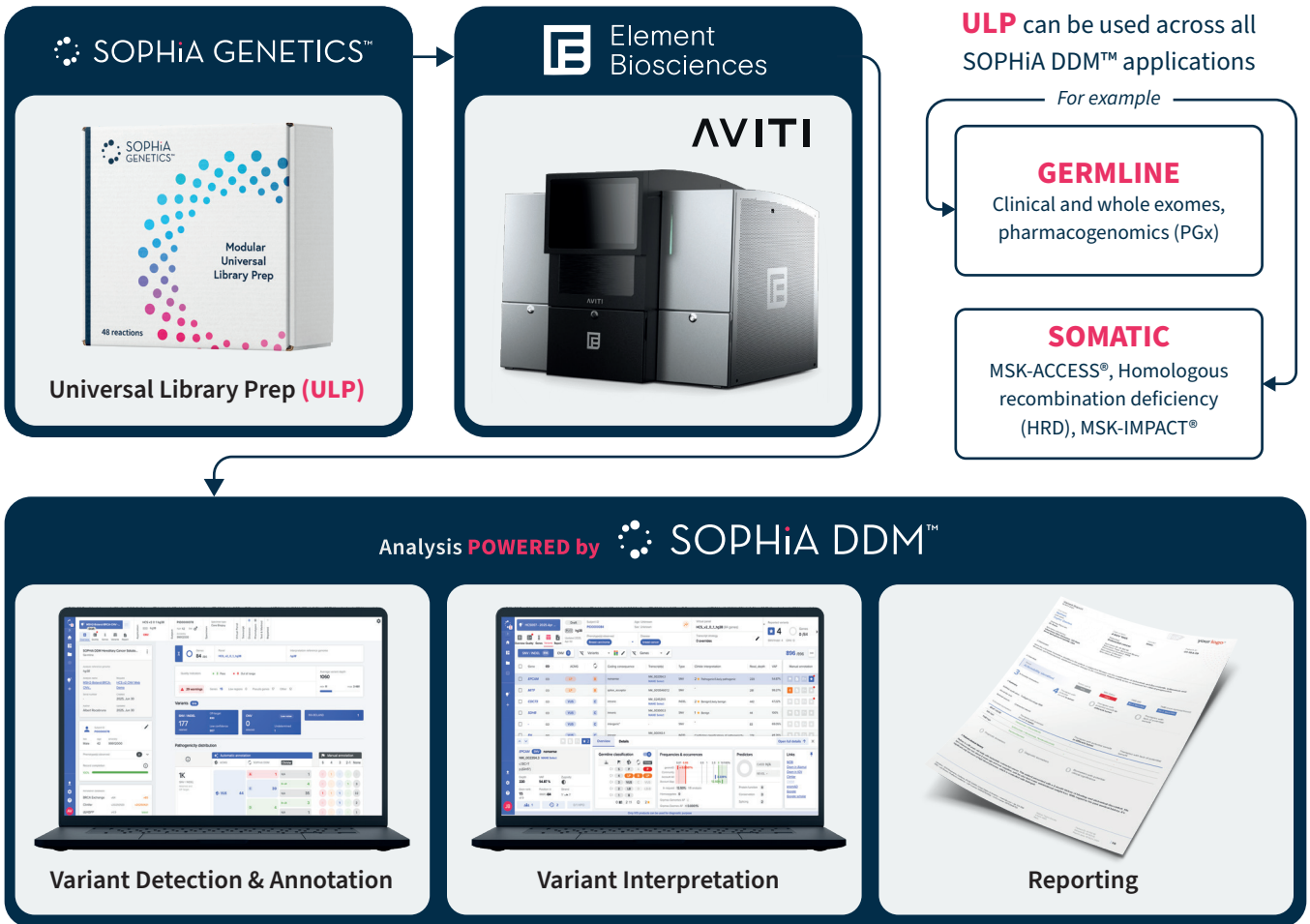


Fast · Accurate · Affordable

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.



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 ”

Philippe Menu | Chief Product Officer and Chief Medical Officer, SOPHIA GENETICS

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

✓ High read quality

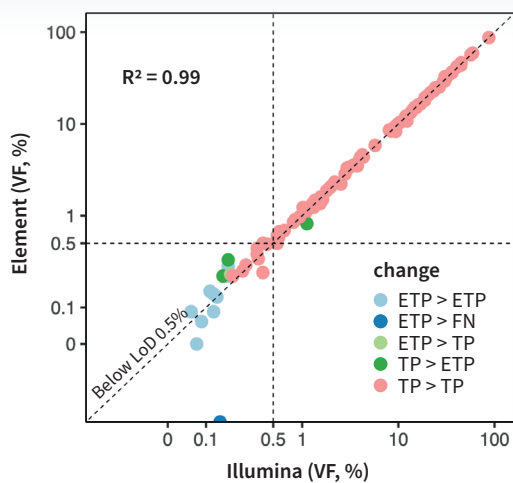
✓ Low off-target rates

✓ High coverage uniformity

✓ High reproducibility between sequencers

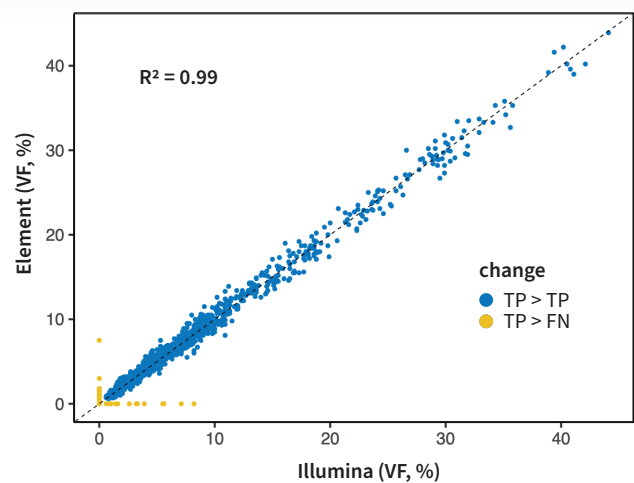
Reliable variant calling across sequencing platforms and NGS applications

MSK-ACCESS® powered with SOPHiA DDM™



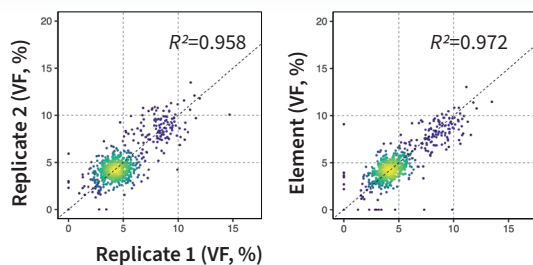
Highly consistent variant fractions for known variants in clinical samples (n = 24) sequenced on Illumina Novaseq X and Element AVITI. ETP, expected true positive; FN, false negative; TP, true positive; VF, variant fraction.

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.

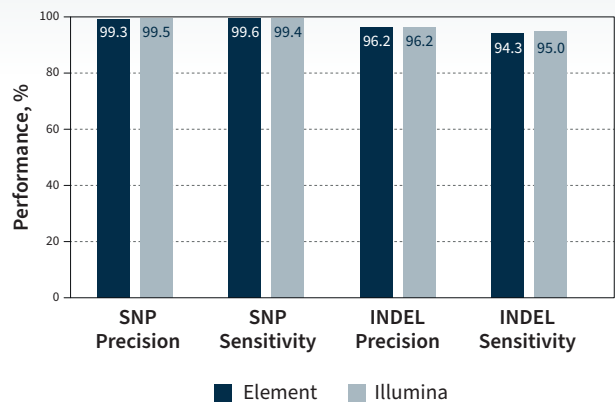
MSK-IMPACT® powered with SOPHiA DDM™



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