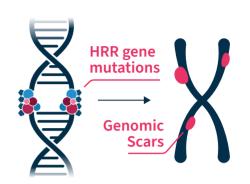
SOPHiA DDM™ Extended Homologous Recombination Solution (ExtHRS)

Go beyond BRCA analysis and broaden your detection capabilities

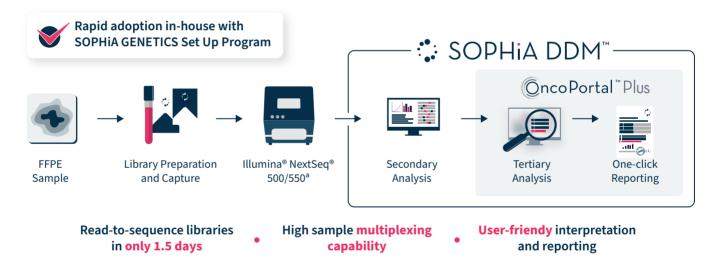
Genetic abnormalities in **homologous recombination repair** (HRR) genes, beyond *BRCA1* and *BRCA2*, can lead to **homologous recombination deficiency (HRD)** in several cancer types, including ovarian, breast, prostate, colon, lung, and pancreatic¹.

SOPHIA DDM™ ExtHRS is a **sample-to-report NGS**

application that allows researchers to go further with their HRR mutation sequencing and identify the cause of HRD across cancer types.



Streamline your workflow with SOPHiA DDM™ ExtHRS







Empower in-house expertise on HRR sequencing with a **sample-to-report NGS workflow**



Detect, annotate and pre-classify **SNVs, Indels**, and **gene amplifications** in 28 HRR-associated genes



Accelerate your research with our powerful proprietary algorithms and versatile **SOPHiA DDM™ Platform**





Confident decision-making and one-click reporting

OncoPortal[™] Plus matches **tumor molecular profiles** with **clinical associations** and available **clinical trials**, leveraging expertly curated evidence powered by JAX-CKB[™].

After interpretation, the **flexible reporting tools** enable users to prepare **push-button**, comprehensive reports that are **customizable** to their needs.



Advanced analytical performance²

100% sensitivity^a

99.99% specificity^a

High coverage uniformity

Accurate gene amplification detection with MUSKAT* technology

Our comprehensive Homologous Recombination Solutions portfolio

	SOPHiA DDM™ mini HRS	SOPHIA DDM™ HRS	SOPHiA DDM™ ExtHRS
Genes	4 genes: BRCA1, BRCA2, RAD51B, TP53	16 genes: ATM, BARD1, BRCA1, BRCA2, BRIP1, CDK12, CHEK1, CHEK2, FANCL, PALB2, PPP2R2A, RAD51B, RAD51C, RAD51D, RAD54L, TP53	28 genes: AKT1*, ATM, BARD1, BRCA1, BRCA2, BRIP1, CCNE1, CDK12, CHEK1, CHEK2, ESR1*, FANCA, FANCD2, FANCL, FGFR1*, FGFR2*, FGFR3*, MRE11, NBN, PALB2, PIK3CA*, PPP2R2A, PTEN, RAD51B, RAD51C, RAD51D, RAD54L, TP53. *Hotspots
Sample type	FFPE, fresh-frozen tissue	FFPE, fresh-frozen tissue	FFPE, fresh-frozen tissue
Starting material	50 ng DNA	50 ng DNA	50 ng DNA
Reads per sample (2x150bp)	1.6 million	4.7 million	5.9 million
Samples/run for 1000x coverage depth (2x150bp)	 Up to 24 samples for Illumina MiniSeq™ kit Up to 32 samples for Illumina MiSeq® kit v3 Up to 24 samples for Illumina MiSeq® kit v2 	 Up to 8 samples for Illumina MiSeq® kit v3 Up to 4 samples for Illumina MiSeq® kit v2 Up to 16 samples for on Torrent™ Ion S5™ System 	 Up to 32 samples for Illumina® NextSeq® 500/550 Mid Output Kit^a
Product codes	BS0111ILLRSMY05-16; BS0111ILLRSMY05-32; BS0111ILLRSMY05-48	MiSeq®: BS0108ILLRSMY05-16; BS0108ILLRSMY05-32; BS0108ILLRSMY05-48 IonTorrent™: BS0108TFSRSML03-016; BS0108TFSRSML03-032	BS0124ILLRSMY08-32

Want to know more? Contact us at: info@sophiagenetics.com

^{*}Also compatible with NovaSeq® sequencers. FFPE, formalin-fixed, paraffin-embedded; Indels, insertions and deletions; NGS, next generation sequencing; SNV, single nucleotide variant.

All product and company names are trademarks™ or registered® trademarks of their respective holders. Use of them does not imply any affiliation with or endorsement by them. SOPHiA GENETICS™ Homologous Recombinatio
Applications are for research use only - not for use in diagnostic procedures

1. Mekonnen N et al. Front Oncol. 2022/12/88/06/43. 2. Data on File.







Based on internal verification of 51 FFPE ovarian cancer samples. Specificity analysis characterized samples only