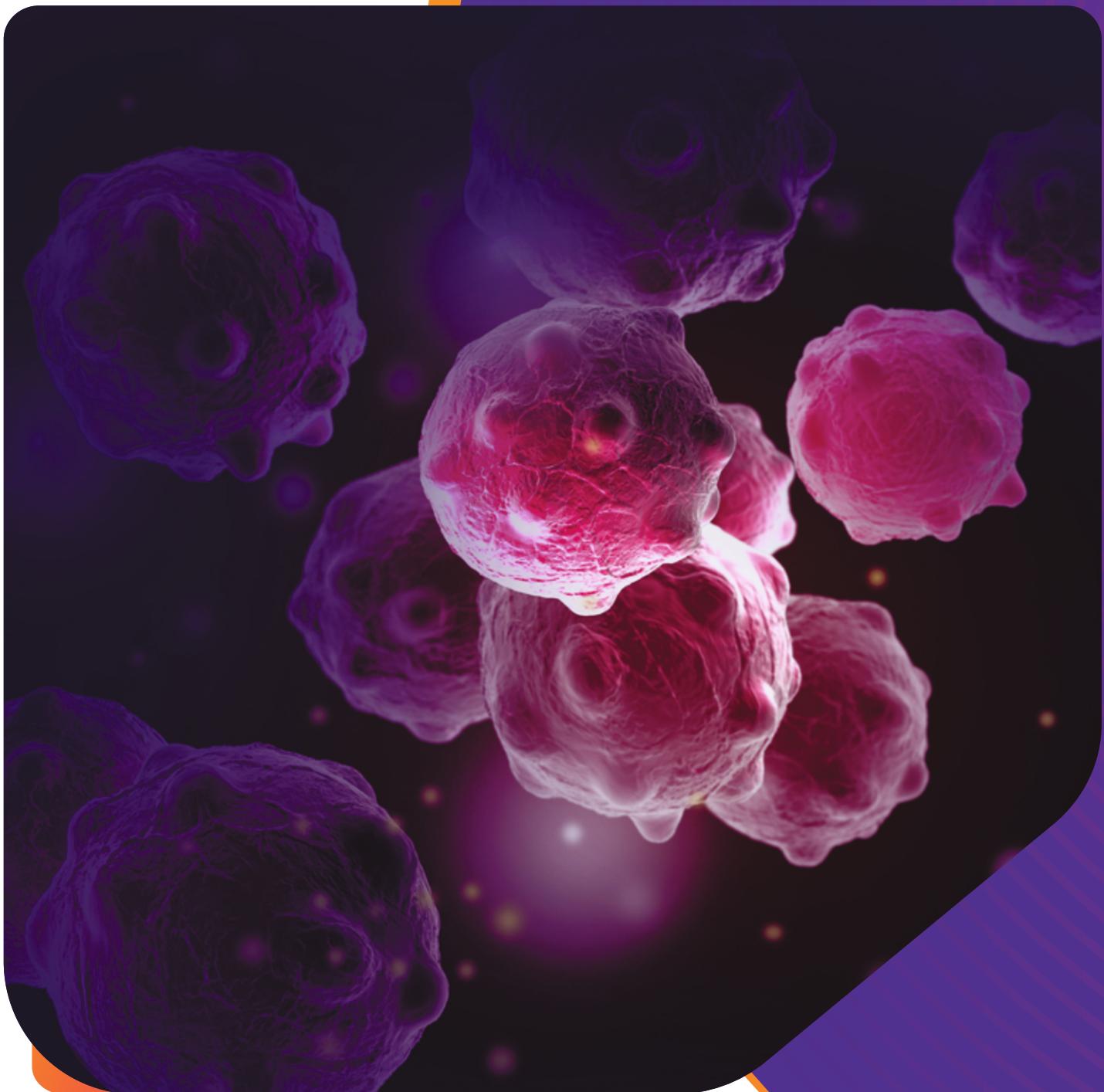




# New INSIGHTS



## Comprehensive Oncology

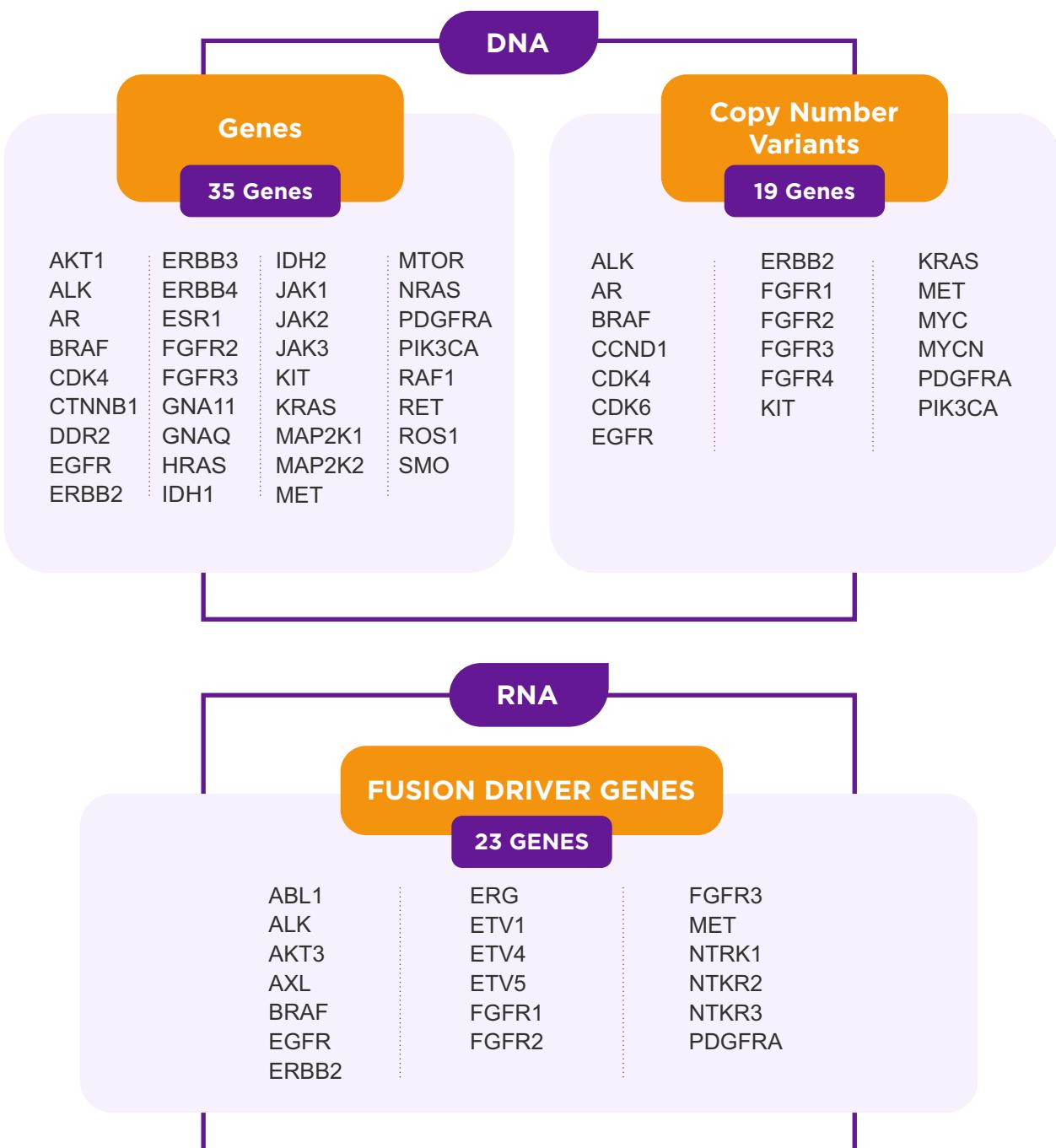
# OncoCEPT - Solid

(CEPT : Comprehensive Evaluation for Personalized Treatment)

## Prominent technical features of OncoCEPT Solid:

- Enables the detection of variants in 52 key solid tumor genes. These genes are well characterized in the published literature and associated with oncology drugs that are FDA approved, part of National Comprehensive Cancer Network (NCCN) guidelines, or in clinical trials.  
The assay allows concurrent analysis of DNA and RNA.
- Simultaneously detects multiple types of variants, including hotspots, single nucleotide variants (SNVs), indels, CNVs, and gene fusions, in a single workflow.  
Uses formalin-fixed, paraffin embedded (FFPE) tissues, fine-needle aspirates, fresh tissues as starting sample.

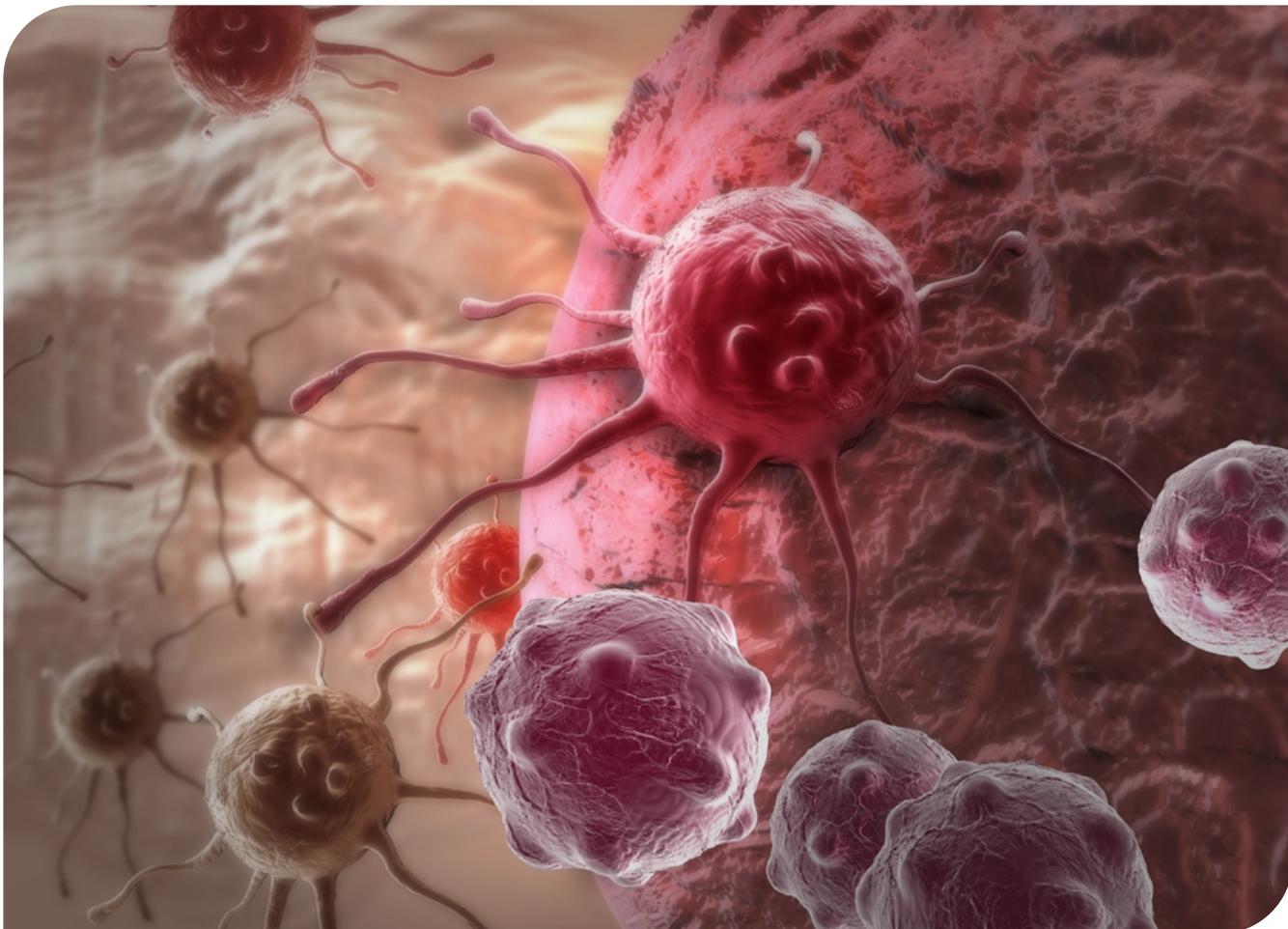
Turn around time (TAT): 12 business days.



# **OncoCEPT - Solid Comprehensive**

(CEPT : Comprehensive Evaluation for Personalized Treatment)

OncoCEPT Solid identifies these driver mutations, opens up different targeted therapy options, helps to know about relevant clinical trials, and helps to understand the prognosis of the patient.



## **Prominent technical features of OncoCEPT Solid:**

- ▶ Enables the detection of variants in 161 key solid tumor genes. These genes are well characterized in the published literature and associated with oncology drugs that are FDA approved, part of National Comprehensive Cancer Network (NCCN) guidelines, or in clinical trials. The assay allows concurrent analysis of DNA and RNA.
- ▶ Simultaneously detect multiple types of variants, including hotspots, single nucleotide variants (SNVs), indels, CNVs, and gene fusions, in a single workflow.  
Uses formalin-fixed, paraffin embedded (FFPE) tissues, fine-needle aspirates, fresh tissues as starting sample.

Turn around time (TAT): 15 business days.

# OncoCEPT - Solid Comprehensive (161)

DNA							
Genes			Full - Length Genes		Copy Number Variants		
AKT1	FOXL2	MYCN	ARID1A	NOTCH1	AKT1	FGFR4	
AKT2	GATA2	MYD88	ATM	NOTCH2	AKT2	FLT3	
AKT3	GNA11	NFE2L2	ATR	NOTCH3	AKT3	IGF1R	
ALK	GNAQ	NRAS	ATRX	PALB2	ALK	KIT	
AR	GNAS	NTRK1	BAP1	PIK3R1	AXL	KRAS	
ARAF	H3F3A	NTRK2	BRCA1	PMS2	AR	MDM2	
AXL	HIST1H3B	NTRK3	BRCA2	POLE	BRAF	MDM4	
BRAF	HNF1A	PDGFRA	CDK12	PTCH1	CCND1	MET	
BTK	HRAS	PDGFRB	CDKN1B	PTEN	CCND2	MYC	
CBL	IDH1	PIK3CB	CDKN2A	RAD50	CCND3	MYCL	
CCND1	IDH2	PIK3CA	CDKN2B	RAD51	CCNE1	MYCN	
CDK4	JAK1	PPP2R1A	CHEK1	RAD51B	CDK2	NTRK1	
CDK6	JAK2	PTPN11	CREBBP	RAD51C	CDK4	NTRK2	
CHEK2	JAK3	RAC1	FANCA	RAD51D	CDK6	NTRK3	
CSF1R	KDR	RAF1	FANCD2	RNF43	EGFR	PDGFRA	
CTNNB1	KIT	RET	FANCI	RB1	ERBB2	PDGFRB	
DDR2	KNSTRN	RHEB	FBXW7	SETD2	ESR1	PIK3CB	
EGFR	KRAS	RHOA	MLH1	SLX4	FGF19	PIK3CA	
ERBB2	MAGOH	ROS1	MRE11	SMARCA4	FGF3	PPARG	
ERBB3	MAP2K1	SF3B1	MSH6	SMARCB1	FGFR1	RICTOR	
ERBB4	MAP2K2	SMAD4	MSH2	STK11	FGFR2	TERT	
ERCC2	MAP2K4	SMO	NBN	TP53	FGFR3		
ESR1	MAPK1	SPOP	Nf1	TSC1			
EZH2	MAX	SRC	Nf2	TSC2			
FGFR1	MDM4	STAT3					
FGFR2	MED12	TERT					
FGFR3	MET	TOP1					
FGFR4	MTOR	U2AF1					
FLT3	MYC	XPO1					

RNA							
FUSION DRIVER GENES							
AKT2	EGFR	FGFR1	MET	NTRK2	PTEN		RSPO2
ALK	ERBB2	FGFR2	MYB	NTRK3	PPARG		RSPO3
AR	ERBB4	FGFR3	MYBL1	NUTM1	RAD51B		TERT
AXL	ERG	FGR	NF1	PDGFRA	RAF1		
BRCA1	ESR1	FLT3	NOTCH1	PDGFRB	Rb1		
BRCA2	ETV1	JAK2	NOTCH4	PIK3CA	RELA		
BRAF	ETV4	KRAS	NRG1	PRKACA	RET		
CDKN2A	ETV5	MDM4	NTRK1	PRKACB	ROS1		

# OncoCEPT - Liquid

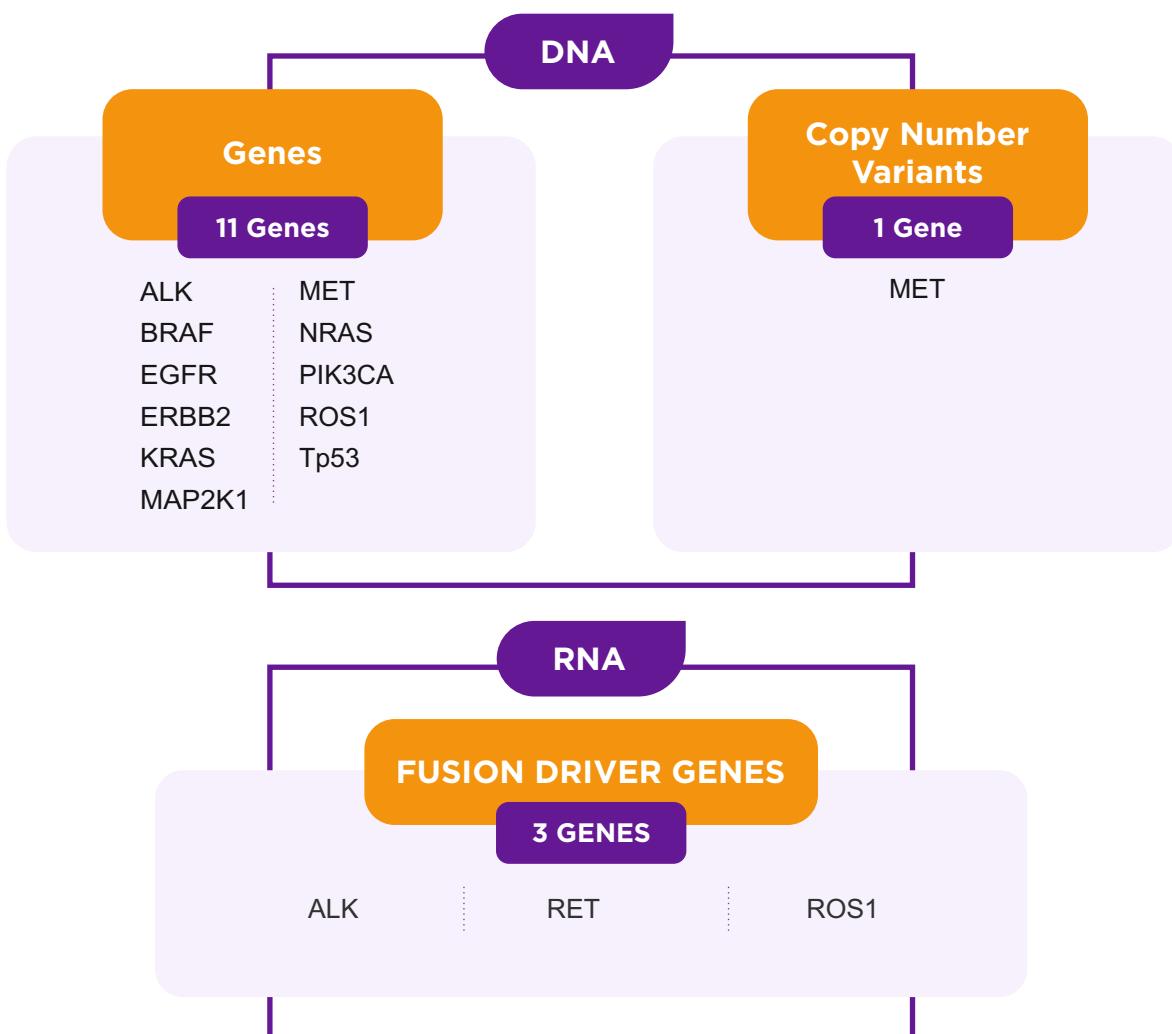
(CEPT : Comprehensive Evaluation for Personalized Treatment)

Liquid biopsies are performed on peripheral blood which is easy to access, allowing for more widespread use. Liquid biopsies have drastically revolutionized the field of clinical oncology, offering ease in tumor sampling, continuous monitoring by repeated sampling, devising personalized therapeutic regimens, and screening for therapeutic resistance. Liquid biopsies detect tumor DNA shed from numerous sites within the tumor and thus provide a more comprehensive genomic picture. Liquid biopsies are most commonly used as a complementary technique to standard tissue biopsies.

## Prominent technical features of OncoCEPT Solid:

- ▶ Detection of somatic mutations in plasma, down to a level of 0.1% in genes relevant to solid tumors.
- ▶ Analysis of single nucleotide variants, short indels, copy number variations, and fusions that are frequently mutated in research cancer samples.
- ▶ 150 hotspots in 11 genes focused on solid tumors, are analyzed.

Sample type: whole blood.  
Turnaround time (TAT): 10 business days.

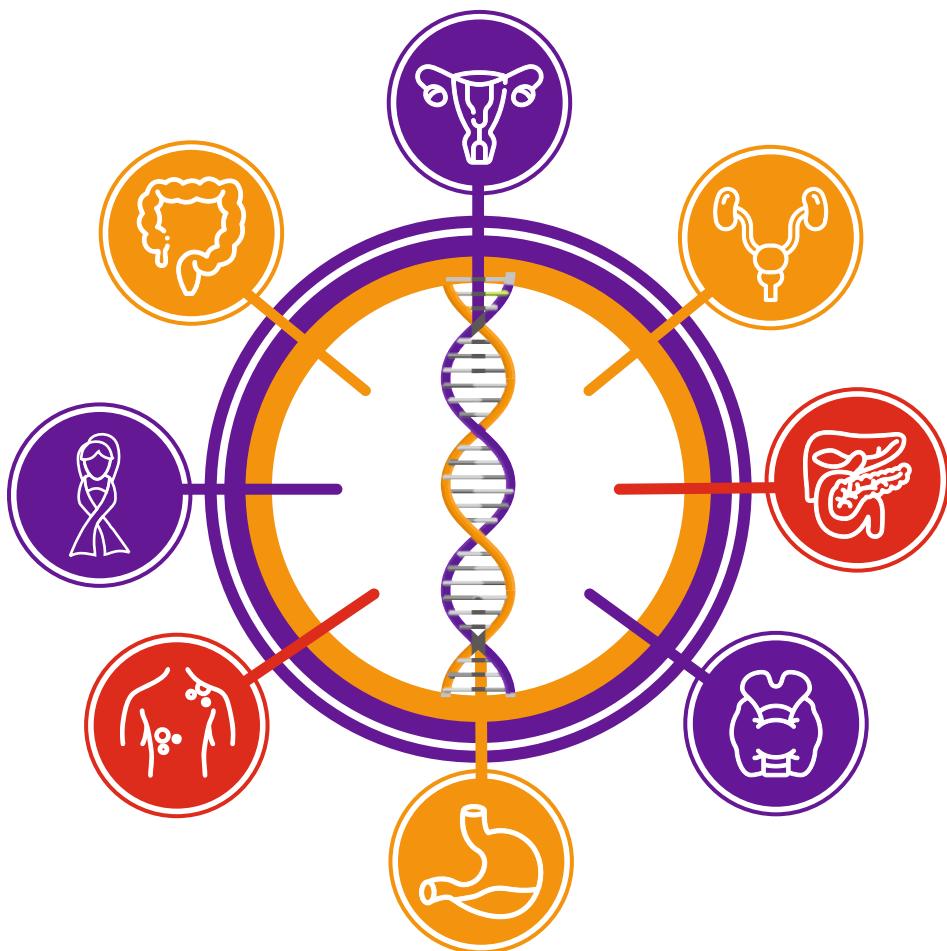


# Inherited Cancer Testing

Multiple

Early onset

Rare



## Comprehensive Inherited Cancer Panel (193 genes) ORION Focus

Includes:

- ▶ Common and rare hereditary cancer syndromes
- ▶ All NCCN and ACMG recommended genes

### Cancer gene panels:

Breast

Ovarian

Colon

Pancreatic

Thyroid

Endometrial

Prostate

Gastric

Melanoma

Renal

\* Single gene testing via NGS available (TP53, PTEN, APC, RB1 etc)

\* BRCA 1 and BRCA 2 MLPA available

# Our Specialized Test Panel

## Inherited

Cancer Type	Test Name	Test Component	Technique used	Sample requirement	TAT
Hereditary malignancies	ORION focus	193 gene	Next generation Sequencing (NGS)	Whole blood in EDTA (3ml)	28 days

## Somatic

Cancer Type	Test Name	Test Component	Technique used	Sample requirement	TAT
Colorectal	Colo Comprehensive	MSI+BRAF+KRAS+NRAS	Next generation Sequencing (NGS)+PCR	1. Tumor FFPE block containing cancer cells. 2. Whole blood in EDTA (3ml)	15 days
Breast	ER/PR/Her2 by IHC	Immunohisto-chemistry of ER, PR and Her2	Immunohisto-chemistry (IHC)	Tumor FFPE block	5 days
	Her2 by FISH	Her2	FISH	Tumor FFPE block	7 days
	Somatic	BRCA1/2	Next generation Sequencing (NGS)	Tumor FFPE block	15 days
	Germline			Whole blood in EDTA (3ml)	28 days
Lung	EGFR by NGS	EGFR (18,19,20,21) exons	Next generation Sequencing (NGS)	Tumor FFPE block	12 days
	OncoCEPT-Solid	52 GENES EGFR, BRAF, KRAS, ERBB2 Rearrangement: ALK, ROS1, NTRK RET, MET etc.	Next generation Sequencing (NGS)	Tumor FFPE block	12 days
	EGFR T790M	EGFR T790 liquid biopsy	Digital PCR	Whole blood in Streck tube (10 ml)	5 days
	OncoCEPT-Liquid	ALK, BRAF, EGFR, ERBB2, KRAS, MAP2K1, MET, NRAS, PIK3CA, ROS1, and Tp53	Next generation Sequencing (NGS)	Whole blood in Streck tube (10 ml)	12 days

Cancer Type	Test Name	Test Component	Technique used	Sample requirement	TAT
Thyroid	OncoCEPT Solid	Sequencing: EGFR, BRAF, KRAS, NRAS, HRAS. Fusion: RET-PTC, PAX8-PPAR gamma etc.	Next generation Sequencing (NGS)	Tumor FFPE block	12 days
GIST	OncoCEPT Solid	Sequencing: cKIT, PDGFRA	Next generation Sequencing (NGS)	Tumor FFPE block	12 days
All solid Tumors	OncoCEPT Solid Comprehensive (161 gene panel for all solid tumors)	161 genes	Next generation Sequencing (NGS)	Tumor FFPE block	15 days
HRR Panel	BRCA1, BRCA2, ATM, BARD1, BRCA1P1, CDK12, CHEK1, CHEK2, FANCL, PALB2, RAD51B, RAD51C, RAD51D, or RAD54L	12 genes etc	Next generation Sequencing (NGS)	Tumor FFPE block	15 days

# Our Globally Performed Services



**Inherited Genetic  
Disorder**



**Reproductive  
Genetics**



**Cancer Genomics**



**Haemato Oncology**



**Transplant  
Immunology**



**Infectious  
Disorders**



**Pharmacogenomics**



**Research Services**



**FOR MORE DETAILS, CONTACT US AT**

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