Comprehensive Testing

"Adding plasma next-generation sequencing testing to the routine management of metastatic nonsmall cell lung cancer patients appears to increase targetable mutation detection and improve the delivery of targeted therapy. Tissue alone detected targetable mutations for 20% of patients. Adding plasma sequencing increased targetable mutation detection to 36%."

Source: JAMA Oncol. 2019;5(2):173-180 DOI:10.1001/jamaoncol.2018.4305

SOMATIC RNA FUSION NGS CCNB3 STAT6 ABL1 FGFR1 MYB POU5F1 **ACTB** CCND1 FGFR2 MYC PPARGC1A STRN NAB2 AFAP1 CD74 FGFR3 PPP1CB SUZ12 FLI1 NCOA1 **PRKACA** TACC1 **AGK** CIC NCO_A2 TACC3 AKAP12 CLTC FN1 PRKAR1A AKAP4 **CNTRL** FOXO1 NCOA4 PTPRZ1 TAF15 **AKAP9** COL1A1 FOXO4 NFIB QKI TCF12 AKT2 CREB1 FUS NOTCH2 RAF1 **TERT** AKT3 CREB3L1 GLI1 NPM1 RANBP2 TFE3 NR4A3 RARA ALK CREB3L2 GOPC TFG ASPSCR1 CRTC1 **GPR128** NRG1 **RELA THADA** ATF1 DDIT3 HMGA2 NRG2 **RELCH** TMPRSS2 ATP1B1 DNAJBI JAZF1 NSD3 RET TPM3 ATRX **EGFR KIAA1549** NTRK1 ROS1 TPR KIF5B NTRK2 RREB1 TRIM24 BAG4 EML4 BCL2 EPC1 LMNA NTRK3 RSP02 TRIM33 **BCOR** ERBB2 LPP NUTM1 RSP03 TRIO ERBB4 PAX3 VGLL2 BCORL: MAGI3 SDC1 ERG MAML1 PAX7 SDC4 BICC1 ESR1 PAX8 SHTN1 WWTR1 MAML2 YAP1 **BRAF** ETV1 MAML3 **PDGFB** SLC34A2 BRD3 ETV4 MET PDGFRA SND1 **YWHAE** 7MYM2 RRD4 ETV5 MGA PDGFRB SQSTM1 CAMTA1 ETV6 **MGMT** PHF1 **SS18 ZNF703 MIR143** РІКЗСА SSX1 ZFTA EWSR1 MITF PLAG1 SSX2 MKL2 SSX4

SOMATIC DNA SEQUENCING

FULL GENE						
AKT1	CDH1	EZH2	JAK3	NRAS	SETD2	
ALK	CDK4	FBXW7	KDR	NTRK1	SMAD4	
AR	CDK12	FGFR1	KEAP1	NTRK2	SMARCA4	
ARAF	CDK6	FGFR2	KIT	NTRK3	SMARCB1	
ARID1A	CDKN2A	FOXL2	KRAS	PALB2	SMO	
ATM	CHEK1	FGFR3	MAP2K1	PDGFRA	SRC	
ATR	CHEK2	GNA11	MAP2K2	PIK3CA	STAT3	
AXL	CRKL	GNAQ	МАРК3	POLD1	STK11	
BAP1	CSF1R	GNAS	MET (Incl.	POLE	TERT	
BARD1	CTNNB1	HNF1A	Exon 14 Skipping)	PTEN	TOP1	
BRAF	DDR2	HRAS	MLH1	PTPN11	TP53	
BRCA1	EGFR	IDH1	MTOR	RAF1	TSC1	
BRCA2	ERBB2	IDH2	MYC	RB1	TSC2	
CCND1	ERBB4	IGF1R	NF1	RET	VHL	
CCNE1	ESR1	JAK2	NOTCH1	ROS1		

CNV				
AR	CDK4	ERBB2	KIT	
CCND1	CDK6	FGFR1	MET	
CCNE1	EGFR	FGFR2	MYC	

FUSION BY RT-PCR				
ALK	NTRK2	RET		
NTRK1	NTRK3	ROS1		

IMMUNOTHERAPY			
MSI	PD-L1 RNA Expression		

HEREDITARY GENES					
APC	CDH1	FLCN	NBN	RAD51C	TP53
ATM	CDK4	HOXB13	NF1	RAD51D	TSC1
AXIN2	CDKN2A	MET	NTHL1	RECQL	TSC2
BAP1	СНЕК2	MITF	PALB2	SCG5	VHL
BARD1	CTNNA1	MLH1	PMS2	SDHB	
BMPR1A	EPCAM	MSH2	POLD1	SDHC	
BRCA1	FANCC	MSH3	POLE	SDHD	
BRCA2	FANCM	MSH6	POT1	SMAD4	
BRIP1	FH	MUTYH	PTEN	STK11	

INTERNATIONAL ASSOCIATION FOR THE STUDY OF LUNG CANCER (IASLC) RECOMMENDATION:

Liquid biopsy is emerging as not only complementary to tissue-based analysis but also acceptable as the initial approach ("plasma first") for biomarker evaluation at the time of diagnosis and for monitoring the efficacy of targeted therapies.



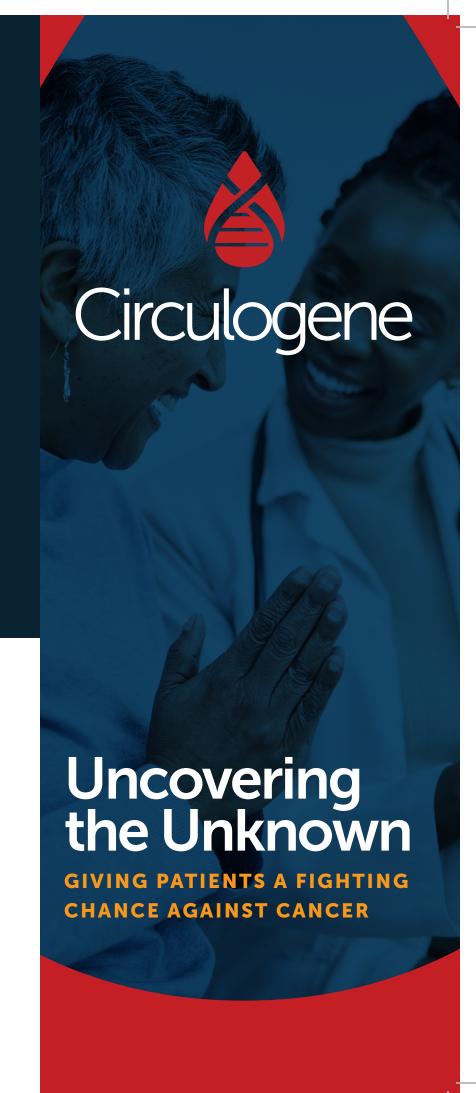
GET STARTED TODAY

Talk to your **CIRCULOGENE** representative to request our collection kit and requisition form.





WWW.CIRCULOGENE.COM
INFO@CIRCULOGENE.COM
855-614-7083





My Circulogene?

CIRCULOGENE's comprehensive tumor DNA and RNA sequencing is the only plasma testing available that combines the most advanced next-generation sequencing (NGS) and polymerase chain reaction (PCR) technology to detect and monitor cfDNA and cfRNA within well-characterized, well-documented, actionable cancer-associated genes.

Key Advantages of CIRCULOGENE

1 BETTER CATCH RATE

By combining PCR testing for cfRNA detection and cfDNA NGS, CIRCULOGENE captures more actionable mutations and fusions.

2 COMPLETE RESULTS

DNA, RNA, MSI, and PD-L1, Somatic, and Hereditary

3 SPEED

One Week Turnaround Time

PLASMA PD-L1

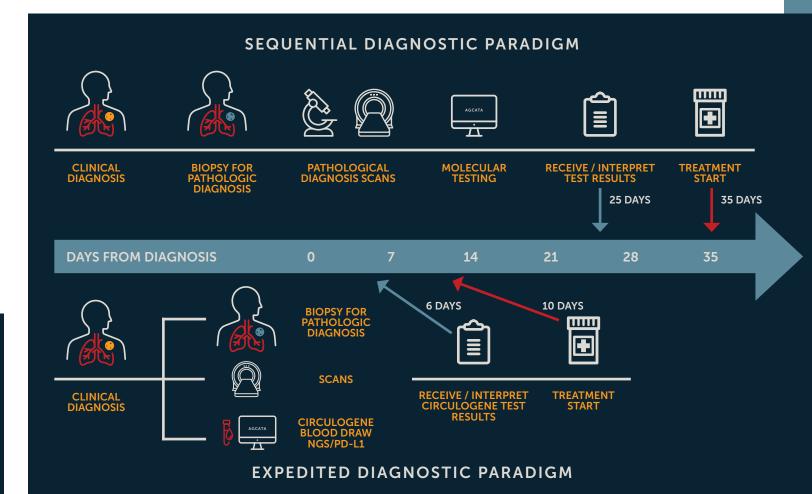
CIRCULOGENE's comprehensive gene panel is the only noninvasive technique that utilizes blood to test plasma PD-L1 RNA. A 3-year landmark study demonstrated parallel survival benefits when using plasma cfRNA PD-L1 compared to tissue PD-L1 as an indication for immunotherapy.

5 EARLY STAGE TESTING

CIRCULOGENE's comprehensive testing platform allows for testing ALL STAGES of cancer. All patients, regardless of stage, deserve a full molecular profile to guide treatment and therapy options.

6 UPSTREAM TESTING

Performing CIRCULOGENE NGS/PD-L1 molecular testing at the time of a biopsy ensures all newly diagnosed patients get full molecular testing, expedites the correct treatment, and reduces the risk of the wrong treatment.



When to Test with Liquid Biopsy

CIRCULOGENE offers the most advanced NGS and PCR methods to both detect and continually monitor cfDNA and cfRNA.

1 At Diagnosis To Guide Treatment

At 6-8 Weeks Post-Treatment to Assess Response

To Assess Symptomatic or Radiographic Concern for Recurrent or Progressing Cancer Before Surgery

