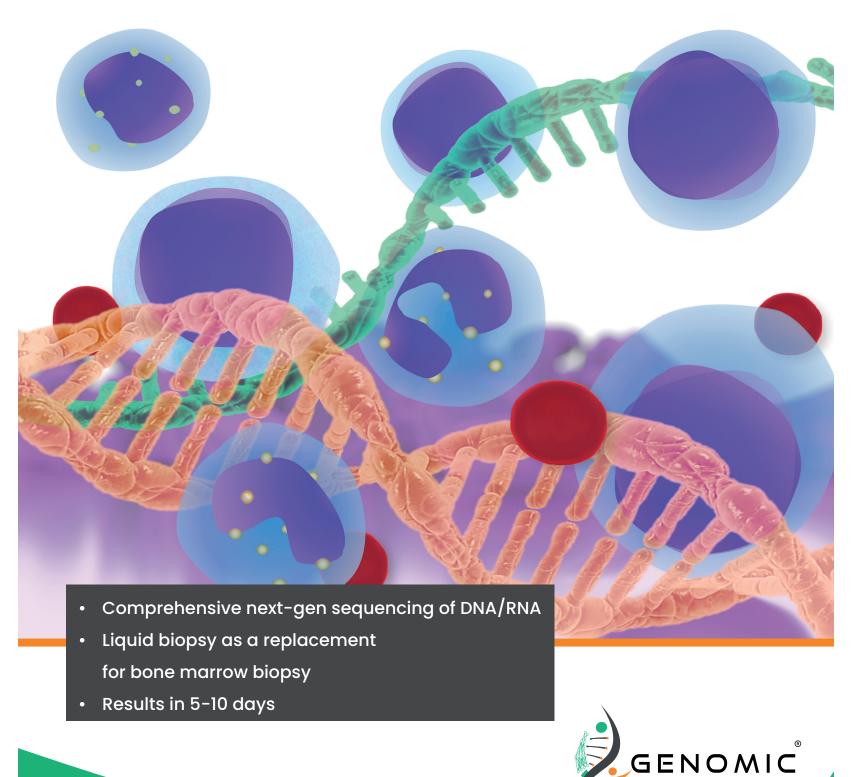
Hematologic Neoplasm Profiling

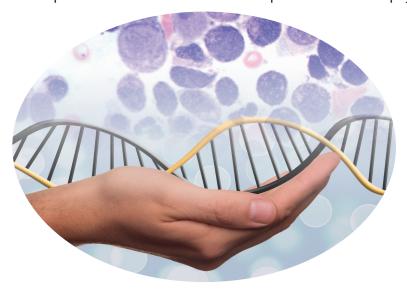
Precision Diagnosis, Classification and Advanced Treatment





Don't accept partial results. DNA and RNA provide a complete picture for comprehensive answers.

- GTC's RNA goes beyond just fusion detection, it can also provide immunophenotype, molecular IHC and molecular karyotyping.
- Sophisticated AI systems that help with interpreting and reporting the data to make more accurate diagnoses and subclassifications
- Replacement for bone marrow aspirations and biopsy



The hematology profiles provide:

- Targeted matching
- Fusion/translocations
- DNA and RNA profiling
- Detection of minimal residual disease (MRD)
- Copy number variation and deletion detection
- Precise diagnosis and classification of disease
- RNA expression profiling for molecular immunophenotyping
- Viral EBV testing
- T-cell & B-cell clonality analysis
- HLA genotyping

Hematology Tests

GTC-Hematology Profile PLUS™ DNA/RNA

Liquid Trace™ Hematology First in class cfDNA/cfRNA

GTC-Hematology Profile™ DNA

GTC-Hematology Profile PLUS™

GTC-Hematology Profile Plus™ combines expression and fusion with mutation analysis in DNA and RNA. This is a comprehensive evaluation of all hematologic neoplasms. However, it is especially recommended for:

- All types of Leukemias
- All types of Lymphomas
- All types of Myelomas
- Includes IgVH mutation status
- Viral EBV testing
- Chromosomal abnormalities, translocations and gene amplifications
- T-cell & B-cell clonality analysis
- HLA genotyping

Liquid Trace™ Hematology

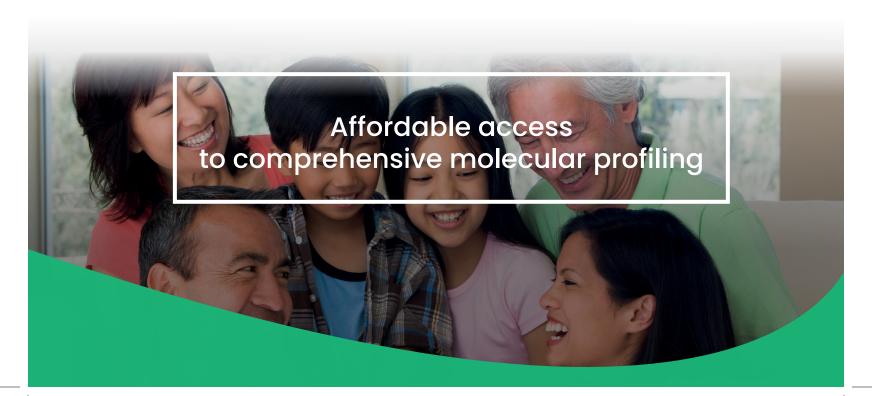
Liquid Trace™ Hematology is a pan-cancer, highly sensitive test evaluating cfDNA and cfRNA

- Replacement for bone marrow aspirations and biopsy
- Can be used for diagnoses, classification of all types of hematological malignancies, evaluating the host immune response, and identifying biomarkers for predicting response to various therapies
- Monitoring therapy and response
- Detection of minimal residual disease (MRD)
- T-cell & B-cell clonality analysis
- HLA genotyping

GTC-Hematology Profile™

GTC-Hematology Profile™ is designed to profile the molecular abnormalities in various hematologic neoplasms including:

- Myelodysplastic Syndrome (MDS)
- Myeloproliferative Neoplasms (MPN)
- Distinguish Clonal Hematopoiesis of Indeterminate Potential (CHIP)
- VEXAS Disease



Hematology Tests Comparison Table

Available Tests	GTC-Hematology Profile PLUS™	Liquid Trace™: Hematology	GTC-Hematology Profile™	
Genes	284/>1600	284/>1600	284 C 5-7 Days	
TAT	7-10 Days	5-7 Days		
lndications	All hematologic neoplasms including lymphomas, myelomas, and leukemias Includes IgVH Chromosomal abnormalities, translocations and gene amplifications Viral EBV testing. HLA genotyping. T- & B-cell clonality analysis	All hematologic neoplasms including lymphomas, myelomas, leukemias, VEXAS syndrome, and EBV Chromosomal abnormalities, translocations and gene amplifications Replacement for bone marrow aspirations and biopsy, Monitoring therapy and response, Detection of minimal residual disease (MRD), HLA genotyping, T- & B-cell clonality analysis	Detects various abnormalities in hematologic neoplasms including: Chromosomal abnormalities, Myelodysplastic Syndrome (MDS), Myeloproliferative Neoplasms (MPN), Distinguish Clonal Hematopoiesis of Indeterminate Potential (CHIP) VEXAS Disease	
Sample Type	Bone marrow, Peripheral blood, Fresh tissue	Peripheral Blood	Bone marrow, Peripheral blood, Fresh tissue	
Sample Requirements	Peripheral blood: 5 mL. EDTA tube preferred FFPE: 1 H&E slide and 6-10 unstained slides, 5-7 microns of Peripheral blood: 8-10 mL. EDTA tube preferred* Samples received beyond 72 hours may include only DNA results Peripheral blood: 8-10 mL. EDTA tube preferred* Samples received beyond 72 hours may include only DNA results		Bone marrow: 2mL. Peripheral blood: 5 mL. EDTA tube preferred FFPE: 1 H&E slide and 6-10 unstained slides, 5-7 microns of tissue fixed with 10% NBF fixative	
Results Reported	DNA + SRNA	ZDNA + ZRNA	DNA	

^{*}Important: cfRNA stability is optimal 48-72 hours from blood draw. cfDNA stability is 7 days from blood draw. Samples received beyond 72 hours may include only cfDNA results.





Hematology Profile Plus

Patient Name:	Ordering Physician:
Date of Birth:	Physician ID:
Gender (M/F):	Accession #:
Client:	Specimen Type:
Case #:	Specimen ID:
Body Site:	

Sample Report Page

MRN:			Indication for Testing:	Other specified types of non-Hodgkin
Collected Date:	Time:	12:00 AM		lymphoma, extranodal and solid organ sites (C85.89)
Received Date:	Time:	11:33 AM		, ,
			Tumor Type:	Lymphoma
Reported Date:	Time:	02:23 PM		

Detected Genomic Alterations				
CD79B	ETV6 (2 mutations)	MYD88	KMT2D	PBRM1
TBL1XR1	IDH1	Chromosomal structural analysis shows: 3p-, 8q-, +9 with bi-allelic deletion of CDKN2A/B), +12, +13, +16, 18q+, and +21.	Expression profiling suggests ABC cell of origin, more aggressive subtype.	

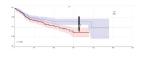
Results Summary

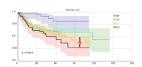
- -Mutations in CD79B, ETV6 (2 mutations), MYD88, KMT2D, PBRM1, TBL1XR1, and IDH1 genes
- -Chromosomal structural analysis shows: 3p-, 8q-, +9 with bi-allelic deletion of CDKN2A/B), +12, +13, +16, 18q+, and +21.
- -Increased B-cell markers
- -No significant increase in BCL1, BCL2, or MYC mRNA.
 -Expression profiling suggests ABC cell of origin, more aggressive subtype.

-These findings are consistent with diffuse large B-cell lymphoma, ABC cell of origin, more aggressive



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Predicted overall survival based on cell of origin classification as ABC.

Predicted overall survival based on cell of origin subclassification as ABC2.

Report Page

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Sample

There is a dominant abnormal clone with CD79B mutation. The ETV6 (2 mutations), MYD88, and KMT2D mutations are detected in subclones. There are abnormal low-level clones with PBRM1, TBL1XR1, and IDH1 mutations.

Expression	
Inci	eased B-cell markers

No significant increase in BCL1, BCL2, or MYC mRNA

Diagnostic	Implications

CD79B, ETV6 (2 mutations), MYD88,	These findings are consistent with diffuse large B-cell lymphoma (see results
	summary).
KMT2D, PBRM1,	
TBL1XR1, IDH1	

MYD88	BTK inhibitors
IDH1	IDH1 inhibitors

CD79B	Unknown
ETV6 (2 mutations)	Unknown
MYD88	Poor
KMT2D	Unknown
PBRM1	Unknown
TBL1XR1	Unknown
IDH1	Neutral

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NOMIC

nce of mutation in: NOTCH, SF3B1, TP53

omprehensive molecular profile which uses next generation sequencing (NGS), Sanger ig and fragment length analysis testing to identify molecular abnormalities (including SNVs, NVs, and IgVH) in DNA of 179 genes and RNA in 1408 genes associated with hematologic s, including leukemia, lymphoma, myeloma, and MDS. Whenever possible, clinical relevance and ns of detected abnormalities are described.

al relevance of detected Alterations

Octiver on some hunder, growded by release, Mar 2010 |

With Incontrate dehippingsases satistave for inculsites decemboration of isocitate to 2-oraginatate. These enzymes belong to two distinct subclasses, one of which willines 446(c) as the electron occipior and the other MADP(-). Five isocitates dehydrogenase have been reported: three MADP(-) effective isocitates dehydrogenases, which location to the mismboration instruct, and how MADP(-) depended isocitate dehydrogeness, which location to the mismboration instruct, and how MADP(-) depended isocitate dehydrogeness, which location to the mismboration instruct, and how MADP(-) depended isocitate dehydrogeness, which location to the immediate dehydrogeness from the Portopolates in the Proposed instructions. It contains the PTS-1 personation and the process of this enzyme in procisionness supposets roles in the respectation of MADP(-) derived in the process of the enzyme in procisionness supposets roles in the respectation of MADP(-) derived interpretations and the procisionness supposets roles in the respectation of MADP(-) derived interpretations and the procisionness supposets roles in the respectation of MADP(-) derived interpretations and the procisionness supposets roles in the respectation of MADP(-) derived interpretations and the procisionness supposets roles in the respectation of MADP(-) derived interpretations and the procisionness supposets roles in the respectation of MADP(-) derived interpretation and the procisionness supposets roles in the respectation of the procisionness supposets roles in the respectation and the procisionness supposets roles in the respectation and the procisionness supposets roles and the procisionness suppo

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for fusion, alternative splicing and expression levels to get a complete picture of their tumor.

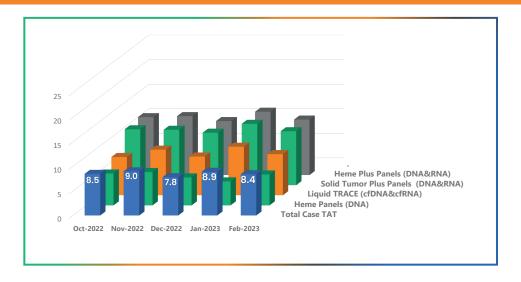
Advantages of RNA

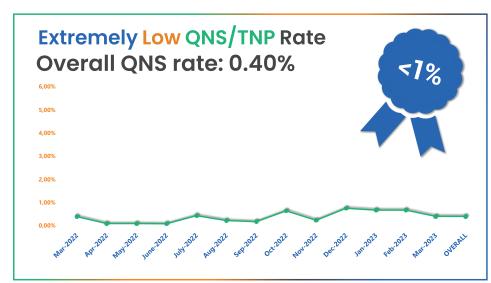
GTC RNA results are compared with thousands of cases with expression levels, then run through our sophisticated AI systems that provide a summary of the findings for each patient.

- RNA Expression/Fusion profiling provides data on alternative splicing and levels of expression which helps in classification of genes
- RNA sequencing offers a superior method to identify gene fusion variants known to have prognostic and predictive significance in treatment.
- Measuring of cytokines, chemokines and interleukins
- Prediction of fusions in hematologic diseases
- · Complete immunophenotying
- Prediction of clinical behavior
- Alternative splicing
- Viral EBV testing

GTC provides a 5-10 day turnaround time for all our tests

GTC is committed to helping physicians and patients get answers fast. GTC consistently delivers results in 5-10 days.





Don't let QNS/TNP fears stop you from ordering comprehensive genomic profiling.

Using innovative chemistry helps reduce QNS and TNP rates.

GTC's QNS rate is currently less than 1%.

The Co-Op model

- Enables local labs to offer a comprehensive molecular testing menu to support their own communities.
- Provides economies of scale that benefit large labs with sophisticated technology at a local level.
- Reduces overhead costs (staffing, capital equipment, billing, etc.).





About GTC

GTC offers advanced genomic testing to communities everywhere at an affordable price.

Genomic Testing Cooperative (GTC) is a different kind of cancer diagnostic laboratory.

Our cooperative model allows us to partner with laboratories, hospitals, oncology practices and medical professionals to share resources which create efficiencies in cost, turnaround time and quality. In creating a network of Co-Op partners, we help get results to physicians faster, share knowledge and generate better outcomes for patients.

Our testing is focused on comprehensive profiling of DNA and RNA in hematologic neoplasms and solid tumors, embracing the latest sequencing technology and informatics tools, thereby providing better insights into the patient's tumor signature. Our RNA sequencing capabilities go beyond just the detection of fusions and include alternative splicing, gene expression and prediction. Our RNA profiling can be used to complement flow cytometry and immunohistochemistry (IHC) testing. GTC's capabilities include liquid biopsy testing that give physicians testing options when tissue or bone marrow specimens are not available. Our informatics tools use artificial intelligence with sophisticated algorithms to interpret complex data sets; these informatics tools are unmatched anywhere on the market today.

GTC was founded in 2018 by Maher Albitar, MD, who has held senior roles at numerous diagnostic laboratories and was a tenured professor at MD Anderson Cancer Center. He has committed his life to helping cancer patients by advancing cancer diagnostics and democratizing testing. Dr. Albitar founded GTC because he had a vision to revolutionize diagnostics and scientific discovery by improving access to comprehensive genomic profiling with next generation sequencing to all patients. He believes every cancer patient should have access to comprehensive genomic profiling. Dr. Albitar is regularly published in the top medical journals in oncology with over 300 publications to date, and has authored over 50 patents.



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Genomic Testing Cooperative, LCA

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