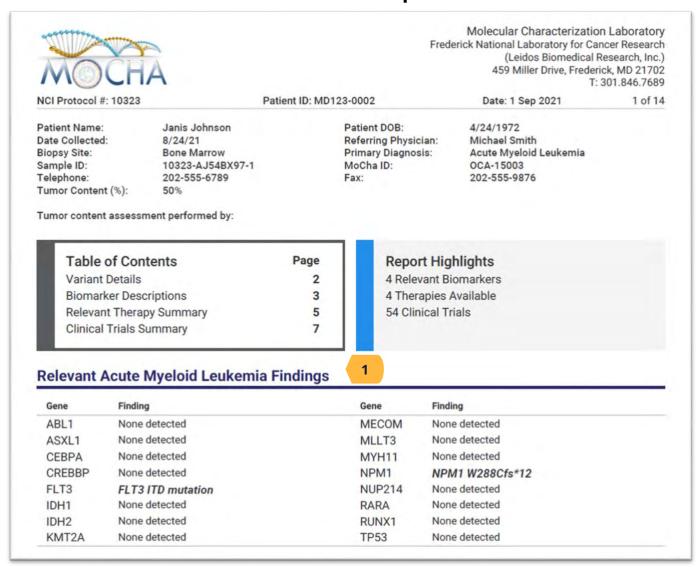
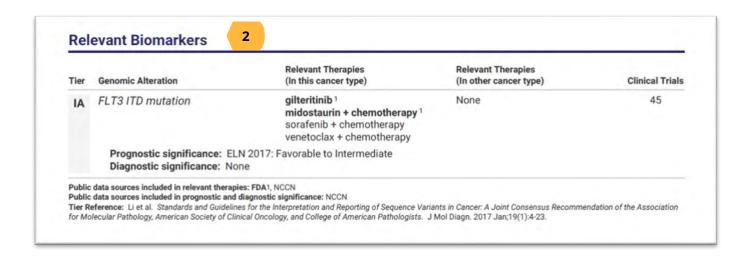


Guide to the MoCha Acute Myeloid Leukemia Biomarker Report



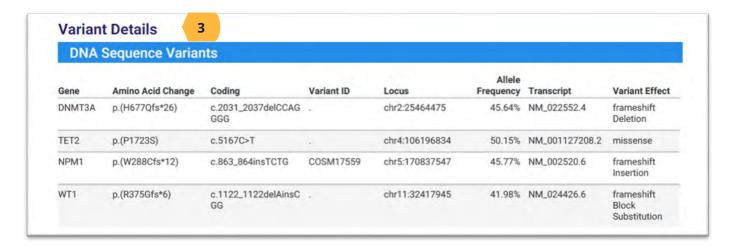
1. Relevant Findings

This table lists key acute myeloid leukemia <u>genes</u> tested for. If a gene tested for was found, the description and location of any gene <u>mutations</u> are included.



2. Relevant Biomarkers

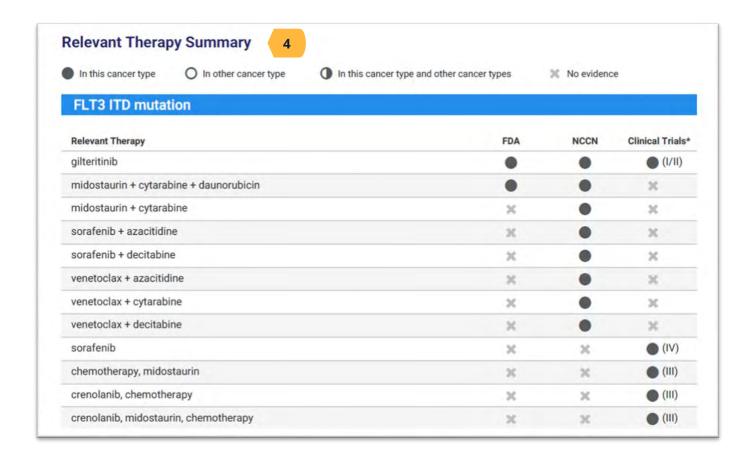
This table lists therapies (treatments) based on the cancer type and specific <u>biomarkers</u> found in the cancer. The list includes therapies for this cancer type as well as for other types of cancers that have the same biomarkers. Different cancer types that share biomarkers may respond to the same biomarker-targeted therapies.



3. Variant Details

The <u>biomarker</u> report lists <u>genes</u> that are known to be related to cancer in some way. It also lists changes (<u>variants</u>) in those genes found in the cancer. Doctors may find this information useful when recommending treatment. There are still some changes in cancer genes that are not understood yet. They may be included in the report if they were detected, since they have been found in many cancers. This is another reason why research on these biomarkers is important.

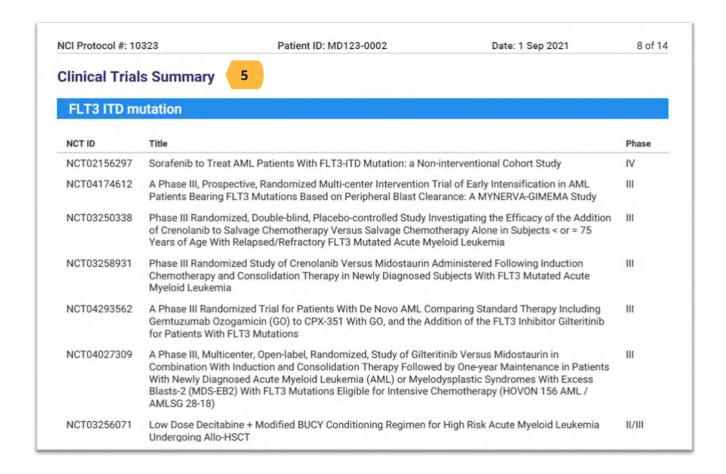




4. Relevant Therapy Summary

The Food and Drug and Administration (FDA) and National Comprehensive Cancer Network (NCCN) publish therapy guidelines for specific cancer types. This table lists their recommended therapies based on the <u>biomarkers</u> found in the cancer. The table also shows whether there may be clinical trials available. A clinical trial is a type of research study that tests potential new therapies.





5. Clinical Trials Summary

This table lists clinical trials that may be available for a specific type of cancer, based on gene <u>mutations</u> and or <u>biomarkers</u> found in the cancer. A clinical trial is a type of research study that tests potential new therapies.

More information on each clinical trial, such as where the clinical trial is being done, can be found at <u>ClinicalTrials.gov</u>.



NCT ID	Title	Phase
NCT03013998	A Master Protocol for Biomarker-Based Treatment of AML (The Beat AML Trial)	1/11
NCT04620681	CD8 Depleted, Non-Engrafting, HLA Mismatched Unrelated Donor Lymphocyte Infusion in Patients With MDA and Secondary AML	1/11

Assay Information



Methodology, Scope, and Application: The NCI Myeloid Assay (NMA) is a next-generation sequencing (NGS) assay which identifies predefined and novel genomic variants covering 40 DNA genes and 29 fusion drivers that are categorized into 4 mutation types: single nucleotide variants (SNVs), small insertions/deletions (Indels), large (>3 bases) insertions/deletions (Large Indels) including FLT3 internal tandem duplications (ITDs), and gene fusions. The assay utilizes Thermo Fisher Scientific's Oncomine® Myeloid Assay GX, a next-generation sequencing (NGS) assay that utilizes a multiplex polymerase chain reaction (PCR) with DNA and RNA extracted from blood and bone marrow mononuclear cells for sequencing on the Ion Torrent Genexus Integrated Sequencer and analyzed by the current version of the Ion Torrent Genexus pipeline. The NMA currently can reliably identify the presence or absence of >1600 known mutations and polymorphisms compared to the Human Reference Genome hg19, including the genes listed below. The NMA is a laboratory developed test designed to find gene mutations for major myeloid disorders.

6. Assay Information

The biomarker test looks for three types of biomarkers:

- Single Nucleotide Variants and Indels which are variations of a gene
- Copy Number Variants which is the number of times a gene is repeated
- Gene fusions when two separate genes combine together.

Get more information on the genetics of cancer.