



**EVERY PATIENT IS  
UNIQUE.  
THEIR TREATMENT  
SHOULD BE TOO.**

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**PAN-CANCER  
CHEMOTHERAPY  
DRUG RESISTANCE  
SCREENING**

## WHAT

Axaitech provides bleeding edge liquid biopsy precision medicine technology to the medical community in South Africa and abroad.

## HOW

Our Pan-Cancer Panel offers comprehensive and hotspot coverage of 57 clinically relevant oncology-related genes implicated in both solid tumours and haematological cancers.

Our panel provides CNV detection in the ERBB2 gene and full exon coverage of TP53 with flanking intron/exon boundaries.

## WHY

Coupled with our world class bioinformatics support, we provide clinically actionable insights so you can make the most informed decisions in treating your patients.

DEVOTED TO  
APPLIED  
**SCIENTIFIC**  
**EXCELLENCE** TO  
SERVE THE  
MEDICAL  
COMMUNITY





OUR ANALYTICALLY  
VALIDATED PANEL,  
COUPLED WITH A  
**WORLD-CLASS**  
BIOINFORMATICS  
ANNOTATION  
PIPELINE, ALLOWS US  
TO **SCREEN FOR**  
KNOWN GENETIC  
VARIANTS LINKED TO  
CHEMOTHERAPY  
DRUG RESISTANCE.

## DIAGNOSTIC CONFIRMATION

Our 57 gene pan-cancer panel can distinguish 20 common cancer markers, providing a definitive means to **confirm** initial diagnosis<sup>1</sup> and unique genetic variation.

## GENETIC DATA VALIDATION

Already have a patient's DNA sequencing data?

Let us annotate it using a library of over 3 billion data points, and a community of over 200 000 geneticists worldwide.

## WHY LIQUID BIOPSY?

Liquid biopsy screens provide several advantages over traditional tissue biopsies, most notably it's comparatively low invasiveness.

For patients which tissue-based testing is not appropriate or available, liquid biopsy can provide a safe alternative test for determining targeted therapy and monitoring treatment efficacy and disease progression.



## OUR REPORT

Our world-class bioinformatics pipeline lets us **annotate, organize, and condense information** so that medical practitioners can make the most informed decisions regarding their patients' treatments.

Each report contains **Actionable Variants, Gene and Variant-specific Information, Drug Candidates** for treatment options, and SAHPRA approved vendors.

## OUR INSIGHTS

## YOUR DECISIONS

## THEIR TREATMENT

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Sample Number:	AxcfDNA	Patient:	
Date of Birth:		Gender:	
Diagnosis:		Ordering Physician/Oncologist	

### cfDNA Variant Report

Potentially Actionable Variants				
Genes	HGVS	Coding Impact	Cosmic Primary Site	Variant Allele Fraction (VAF)
CTNNB1	c.98C>A(p.Ser33Tyr)	missense	Central Nervous System	0.35
EGFR	c.2155G>A(p.Gly719Ser)	missense	Lung	0.25
PIK3CA	c.3140A>G(p.His1047Arg)	missense	Breast	0.20
NRAS	c.181C>A(p.Gln61Lys)	missense	Skin	0.12
KIT	c.2447A>T(p.Asp816Val)	missense	Haematopoietic and Lymphoid Tissue	0.12
PIK3CA	c.1633G>A(p.Glu545Lys)	missense	Breast	0.07
EGFR	c.2573T>G(p.Leu858Arg)	missense	Lung	0.05
EGFR	c.2369C>T(p.Thr790Met)	missense	Lung	0.02

Detailed information regarding these variants are outlined in the variant and therapy related data section

# COMPARATIVE STUDY

## NGS READ MAPPING

Axaitech achieved a 99% mapping of 1.5 million reads, compared to only 49% of over 20 million reads achieved by our competitor in a recent comparative case study.

Our 57 gene pan-cancer panel is based on Next Generation Sequencing technology with our mapping quality second to none.

## AXAITECH RESULTS



BETTER DATA

MEANS

BETTER TREATMENT

## NGS QUALITY SCORE

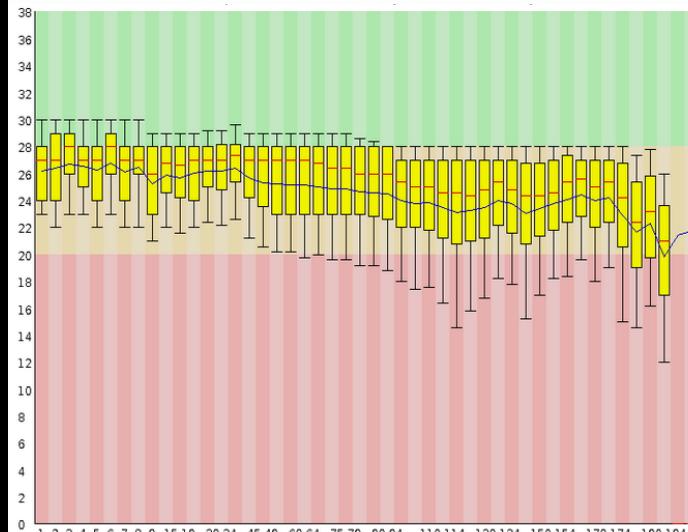
We have consistently achieved an average base call accuracy of 99.9% and higher, making our data the most reliable around.

A visual representation of Axaitech quality:

On the left, our NGS quality readings, On the right (below), the same readings of our competitor.

We deliver the best quality data, consistently.

## COMPETITOR RESULTS



**PLEASE VISIT OUR  
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OUT MORE**

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