Genoox

DESIGN ANALYZE REPORT

Your Fast Track
To Genomic Insights

FAST-TRACK YOUR GENETIC TESTING AND REPORTING CAPABILITIES

How far could you go with the Genoox platform?

Genoox makes it easy for ANY laboratory to design, validate, and run its own NGS panel tests. We offer user-friendly, cost-effective, and advanced analytical tools to manage the computational demands of data processing, variant classification, and clinical reporting, to get your test up and running, FAST.

From DNA sample to clinical report, the innovative Genoox platform manages the entire process

Our built-in and powerful analysis, interpretation, and synthesis tools reduce turnaround time from sample analysis to clinical report to minutes, rather than hours or days.

YOU BUILD THE TEST, WE SIMPLIFY THE PROCESS

Our built-in virtual validated genetic test modules allow “plug-and-play” analysis, or advanced users can design their own custom virtual genetic tests, so that laboratories can expand genetic testing and reporting capabilities without costly infrastructure investment-- all in a HIPAA-compliant environment

Design → Analyze → Report

01 Fast
Allowing rapid scalability to billions of variants from millions of samples, keeping query times to less than one second

02 Accurate
Offering proprietary ultra-sensitive statistical modeling to increase detection of structural variants and SNP mutations

03 Intelligent
Utilizing advanced artificial intelligence to classify frequently updated literature and historical patient data

04 Customizable
Providing a complete modular and integratable system, with tools critical to maximize efficiency

05 Compliant
Delivering a HIPAA-compliant, secure framework employing advanced technical and strict process controls

06 Complete
Ensuring a full END-TO-END process from raw data collection to the delivery of clinically actionable insights

BUILD WHAT YOU NEED

With the Genoox platform, customize virtual panels to suit your needs and standardize every step of your workflow to deliver rapid, reproducible and high-quality clinical tests

The Genoox Assay Builder

Instantly report your customized virtual panels

Single gene
Disease panels
Clinical exome
WES
WGS

Sequencing QC
Easy selection of sequencing quality control parameters

Protocol Builder
Rapid and intuitive panel creation and pipeline configuration

Clinical Analysis
Fully automated ACMG-based variant classification

01 Fast

Instantly create and curate testing panels to speed reporting

02 Intuitive

Easily adapt to changing market needs and requirements

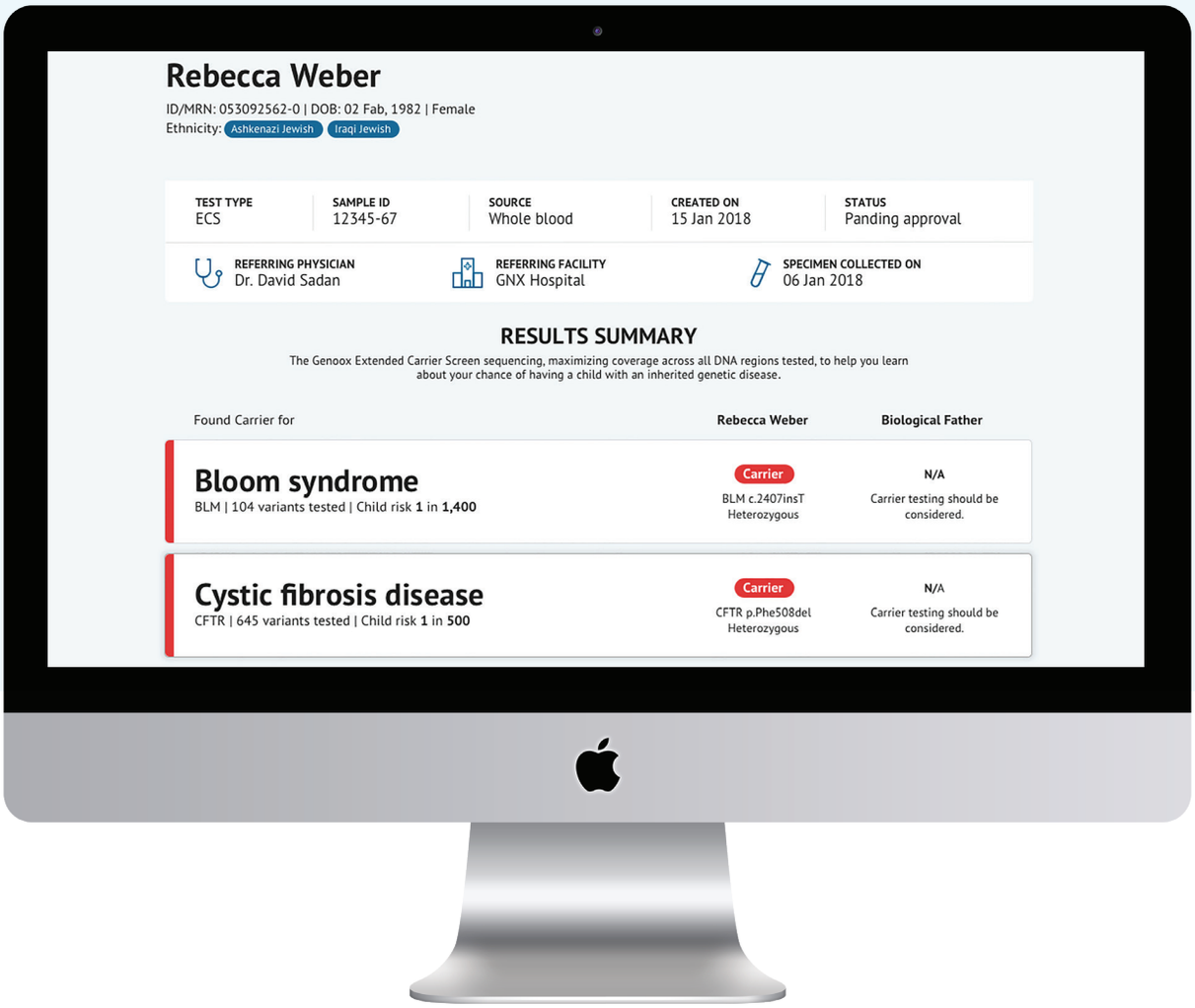
03 Cost Effective

Apply standardized laboratory protocols to ensure scalable accuracy and consistency

ACCELERATE YOUR RESULTS

Automatically generate your customizable lab-branded clinical report tailored to physicians and patients within minutes

- Highlight the most salient findings for your patient
- Provide relevant clinical variant information together with associated diseases
- Offer detailed evidence and logic supporting each variant interpretation



A NEXT-WAVE ENGINE POWERED FOR ACTIONABLE GENOMIC INSIGHTS

A complete END-TO-END process fast-tracked by the Genoox automated variant classification engine

The Genoox next-wave analytical engine includes data compression, variant assessment, classification, curation, analysis, and verification. Our automated, built-in quality systems ensure accurate, fast, and simple targeted patient care; avoid costly errors associated with missing an important correlated variant; and reduce noisy results due to false-positive calls.

Precise bioinformatics

Simplify targeted patient care, while enhancing variant calling precision

- Aggregated confidence score using multiple variant callers
- Improved alignment for challenging regions using learning statistical approach
- Built-in quality assurance & coverage reports

Comprehensive clinical management

Customize organizational workflow, user permissions, and process management workspaces without developing new systems or disrupting existing organizational data flows.

- Preset/configurable analysis templates for routine testing of family, prenatal, tumor, and case control
- Data/sample repository development and controlled updating process
- Graphical gene-level decision support

WE MANAGE THE FULL PROCESS

ACMG-based classification (aVCE) - Rapid, accurate results, powered by Artificial Intelligence

A fully automated and transparent ACMG classification engine weighs genotype to phenotype with evidence-based scoring. The Genoox (aVCE) queries hundreds of available data sources, both public and private, for relevant genetics findings from historical cases, recent evidence, and current literature.

Robust variant priortization engine	AI-based deleterious prediction
AI-based, fully-transparent ACMG automation	Aggregated transcripts support
Phenotype-to-Genotype search	Comprehensive evidence scoring

- Coverage reports
- Reporting tool
- Query engine
- Cohort analysis
- Internal repository
- Quality assurance

Automated, lab-branded clinical reporting

Generate intuitive and graphical gene-level decision support for physicians and collaborators

- Fully customizable clinical report generator
- Intuitive and graphical gene-level decision support for physicians and collaborators
- Third-party downstream integration

Genoox

Genoox is healthcare and technology company that aims to make clinical genetic sequencing more accessible to clinical laboratories. With its cloud-based advanced AI framework that encompasses purpose-built applications, users can easily manage the entire genetic sequencing process and create virtual genetic test modules allowing plug- and-play for the delivery of clinically actionable insights and disease diagnoses.

To see how the Genoox platform can help you expand your laboratory capabilities, or to schedule a demo, contact us at:
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