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Sunquest Mitogen™

Genetic Analysis for Cancer, Hereditary Diseases, and Pharmacogenetics

Giving every patient the best chance at good health

Efficiently grow your clinical genetics lab volume with scalable genomic software

Sunquest Mitogen™ Genetics software helps clinical laboratories expand into and scale next generation sequencing (NGS) testing services for precision medicine – from a single gene to a whole genome. The solution dramatically simplifies and streamlines variant annotation, interpretation and clinical reporting.

Laboratories using Sunquest Mitogen can easily tap into curated content from well-known sources to identify clinically significant variants, and can efficiently produce and deliver actionable genetic test reports in minutes, instead of hours.

MANAGE COMPLEXITY AT SCALE

- Scale your genetic testing lab to achieve higher volume and faster turnaround time
- Bring in data from LIMS and lab instruments
- Use standardized processes for consistent variant interpretation and reporting
- Repurpose curated data from trusted sources
- Manage complex cases involving multiple novel variants or sets of variants
- Deliver EMR-ready reports and variant data, and/or a physician portal
- Alert physicians quickly when variant classification changes for a patient
- Utilize powerful variant assessment tool to assay and classify variants of unknown significance with built-in ACMG guidelines

INCREASE REPORT THROUGHPUT

- Automatically generate ~80% of each customizable pathologist report
- Create, search, share and repurpose variant filters, report templates, sections and content
- Edit reports using a visual editor, including charts, graphs and images
- Easily create compound variants, manage test panels with more than 5,000 genes, and add genes in bulk

IMPROVE REPORT QUALITY

- Generate concise, patient-specific, clinically actionable, enhanced reports
- Integrate and develop your lab's own variant knowledgebase
- Use curated content from trusted sources, such as JAX-CKB ClinVar, dbSNP and COSMIC
- Use Monarch Initiative's ontology, connecting genes, diseases and phenotypes
- Use the cancer mutation knowledgebase from the Dana Farber Cancer Institute
- Tie somatic mutations to cancers, therapeutics and clinical trials

MAXIMIZE INTEROPERABILITY

- Connect with LIMS to import test results
- HL7 and FHIR compatible for integration with EMR and other healthcare systems
- Share de-identified data with other labs
- Built-in integration with N-of-One

IMPLEMENTATION & SUPPORT

- Dedicated team designs an implementation plan focused on your specific lab workflow and tests
- 24 x 7 support

Reduce time spent on each report

Generate easily editable, reliable, clinically actionable reports in minutes, not hours, customized to your lab's needs

PROVEN CLINICAL INFORMATICS EXPERTISE

FILTRATION, ANNOTATION AND STORAGE

VARIANT INTERPRETATION AND REPORT GENERATION

RESULTS DELIVERY AND ALERTS ON NEW INFORMATION

2005

IN CONTINUOUS CLINICAL USE

75+ YEARS DEVELOPMENT STAFF EXPERIENCE

50,000+ CLINICAL REPORTS GENERATED

ISO 9001 / ISO 13485 CERTIFIED*

Access the Monarch Initiative's disease ontology

A Accelerate the curation of your lab's own variant knowledgebase through interoperability and data sharing with other labs and clinical databases, including Monarch's externally curated data sources. Monarch integrates biological data from more than 20 authoritative data sources at an unprecedented level, making connections between genes, diseases and phenotypes.

Genetic data sharing in the VariantWire community

A Through VariantWire, laboratories using Sunquest's genetic analysis software can pool and share de-identified, clinically validated genomic data in real time to support high quality variant interpretation.

> *"One laboratory may have a lot of data on a particular disease and group of genes and another laboratory has a different set, and together they have a great data set that's comprehensive. I definitely think that being part of VariantWire is beneficial to our lab."*
>
> - Lisa Edelman, PhD,
> Director of the Mount Sinai Genetic Testing Laboratory,
> Associate Professor, Department of Genetics and Genomic Sciences, Icahn School of Medicine at Mount Sinai

Sunquest Mitogen™ Genetics is part of our end-to-end LIS / LIMS and genetics variant analysis suite for molecular laboratories. Learn more at www.sunquestinfo.com/mitogen.

*ISO 9001 (Quality Management) & ISO 13485 (Quality Management System for Medical Devices) are internationally recognized and independently verified certifications that document Sunquest has implemented quality management systems to ensure products and services consistently meet customer needs and applicable regulatory requirements.

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About Sunquest

Sunquest Information Systems Inc. provides diagnostic informatics solutions to more than 1,700 laboratories. Since 1979, Sunquest has helped laboratories and healthcare organizations across the world enhance efficiency, improve patient care, and optimize financial results. Sunquest's solutions enable world-class lab capabilities, including multi-site, multi-disciplinary support for complex anatomic, molecular and genetic testing, and engagement with physicians and patients outside the hospitals at the point-of-care. Headquartered in Tucson, AZ with offices in Boston, London, Dubai, Bangalore and Brisbane, Sunquest is a global leader in healthcare information technology.