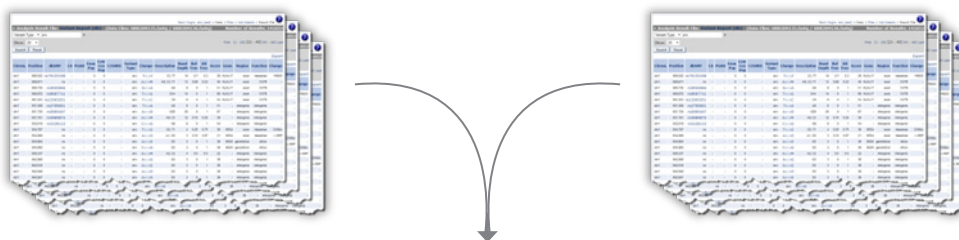


GeneSifter® Analysis Edition v4.0 Product Update

Scientists and clinicians doing DNA sequencing applications such as exome, targeted, and whole genome resequencing face the challenge of identifying and managing significant sequence changes within extremely large data sets containing hundreds of samples and millions of variants per sample. GeneSifter Analysis Edition v4.0 provides a robust infrastructure to handle these large data sets along with rich annotation and powerful query tools to efficiently and confidently identify nucleotide variants of significance.

New Multi-Sample Variant Report

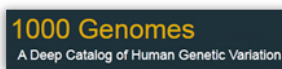
Individual variant sample reports are generated using SamTools or GATK.



Find biologically relevant information in a large data set with the new Multi-Sample Variant Report, which combines individual sample reports with rich annotation for deeper analysis.

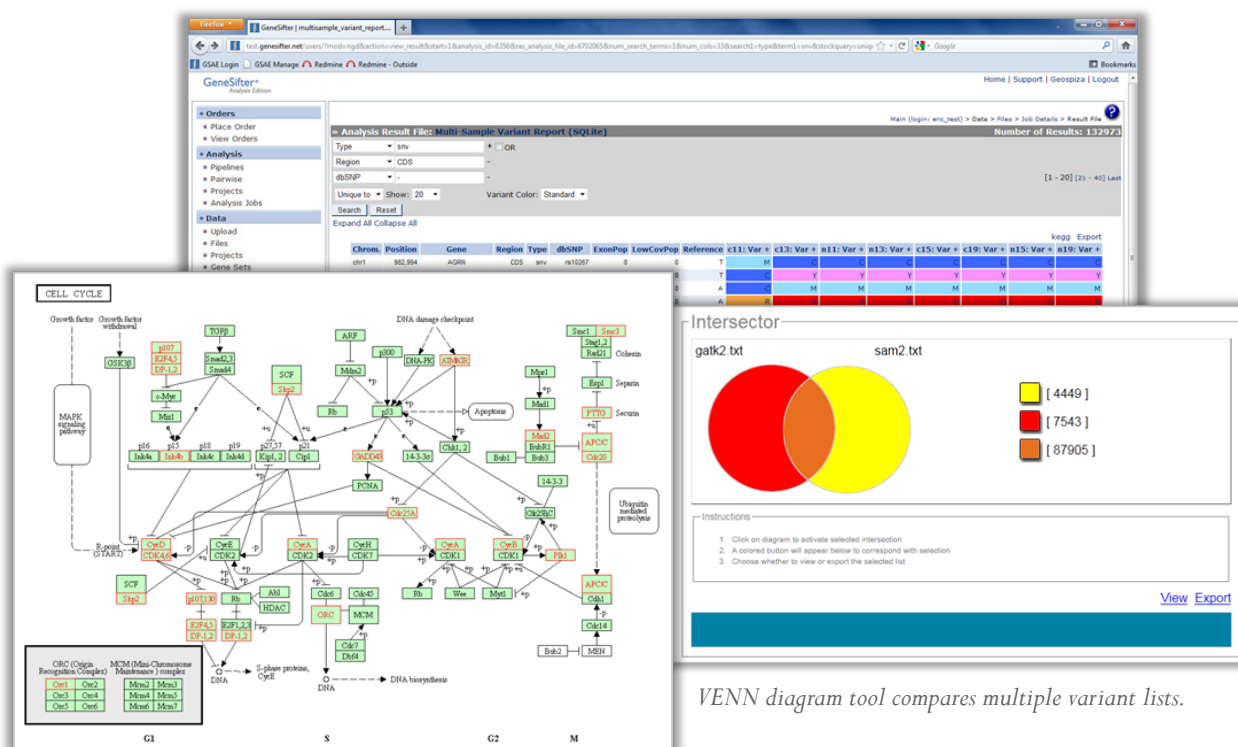
The screenshot shows the GeneSifter web interface displaying a Multi-Sample Variant Report. The interface includes a navigation sidebar on the left with sections like Orders, Analysis, Pipelines, Projects, Data, and Resources. The main content area shows a table of variants with columns for Chromosome, Position, Gene, Region, Type, dbSNP, ExonPop, LowCovPop, Reference, and various variant types (c11: Var, c13: Var, etc.). The table is color-coded to highlight specific variants. The top right of the interface shows the number of results as 132973.

Rich annotation comes from well curated knowledge bases such as COSMIC, 1000 Genomes, NCBI dbSNP and PharmGKB.



Complete Workflows for DNA Sequencing Analysis

Complete workflows for analysis of DNA Sequencing data is more than generating alignments. It also requires tools that allow you to see the biological significance in your data. GeneSifter's KEGG pathway reports and VENN diagram analyses deliver a complete Samples-to-Result solution by enabling you to visualize the similarities and differences in variant genes.



KEGG pathway tool shows the biological significance of variants.

VENN diagram tool compares multiple variant lists.

Features	Applications	Platforms
<ul style="list-style-type: none"> Advanced visualization tools make it easier to see similarities and differences across samples Multi-Sample Variant Report identifies biologically significant information in large data sets Deeper annotation enables you to see associated disease phenotypes Improved searching and filtering capabilities to quickly find specific data Enhanced clustering by groups or individual replicates Demultiplexing of barcoded files 	<ul style="list-style-type: none"> Whole Transcriptome RNA-Seq DGE Tag-profiling Small RNA Exome Targeted Resequencing Whole Genome ChIP-Seq (beta) 	<p>NGS</p> <ul style="list-style-type: none"> Illumina Life Technologies <p>Microarrays</p> <ul style="list-style-type: none"> Affymetrix Agilent Illumina Nimblegen Custom spotted