



Streamlining NGS Data Management & Analysis

# Reads to Discovery

Utilities and Biological Contextualization



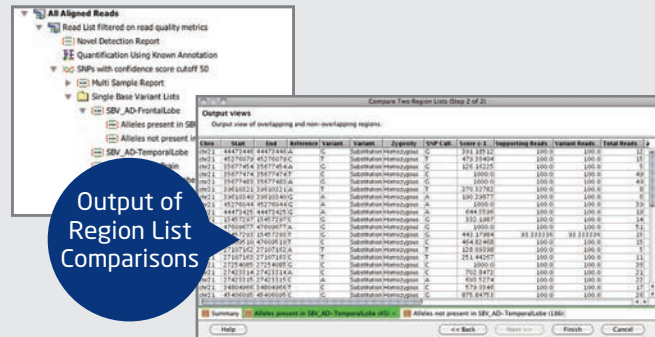
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Analyze | Visualize | Annotate | Discover



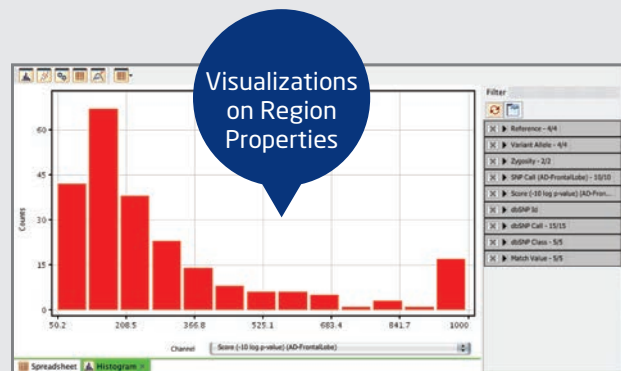
## Compare Region Lists

- Choose two region lists to compare.
- Find overlapping and non-overlapping region with appropriate distance criteria.



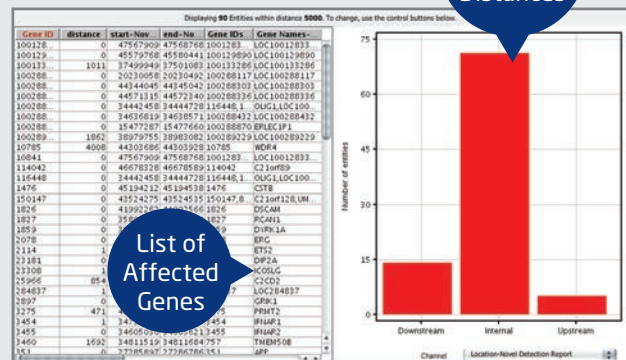
## Region List Operations

- Visualize plots on various columns of a region list.
- Create new columns from existing columns using formulas.
- Perform filter operations on the columns to retain relevant regions.



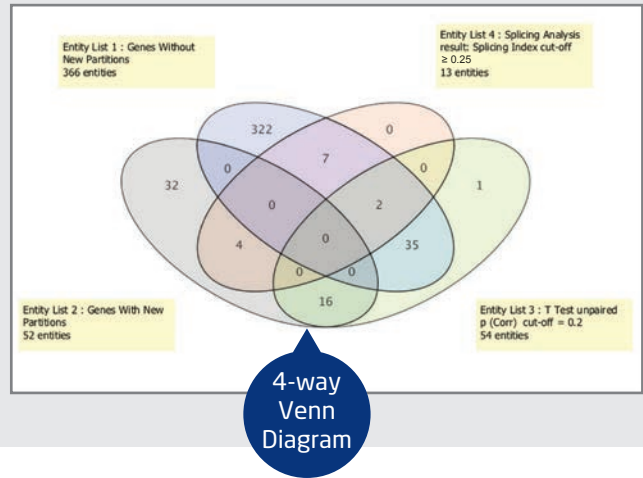
## Translate from regions to genes

- For any region list find adjacent or overlapping genes.
- Find affected genes for the detected regions (eg. SNPs, SVs, peaks).



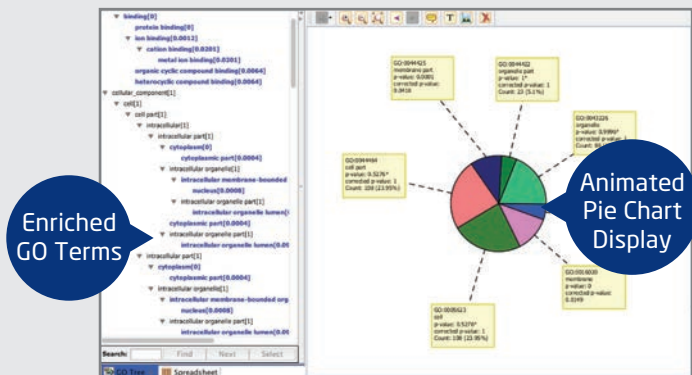
### Compare Gene Lists

- Venn Diagrams to compare gene lists.
- Compare gene lists from different experiments and organisms.
- Ability to compare imported gene lists.
- Ability to save individual regions as new gene lists.



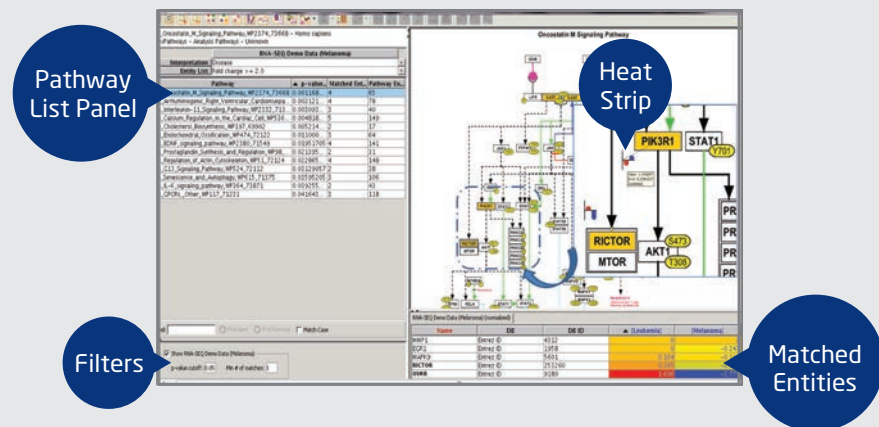
### GO Enrichment

- Genes discovered to be affected by SNPs, SVs, peak regions, or any imported set of genes.
- GO Enrichment analysis on set of genes to detect enriched Gene Ontology terms.



### Pathway Analysis

- Single Experiment Analysis (SEA) identifies enriched pathways for the genes from a single experiment type.
- Multi-Omic Pathway Analysis (MOA) from multiple genomics and transcriptomics experiments.
- Overlay differentially expressed entities on curated pathways.
- Choose from curated pathways like WikiPathways, BioCyC pathways, BioPAX pathways or literature-derived networks like NLP and MeSH.
- Find significant pathways for differentially expressed genes.

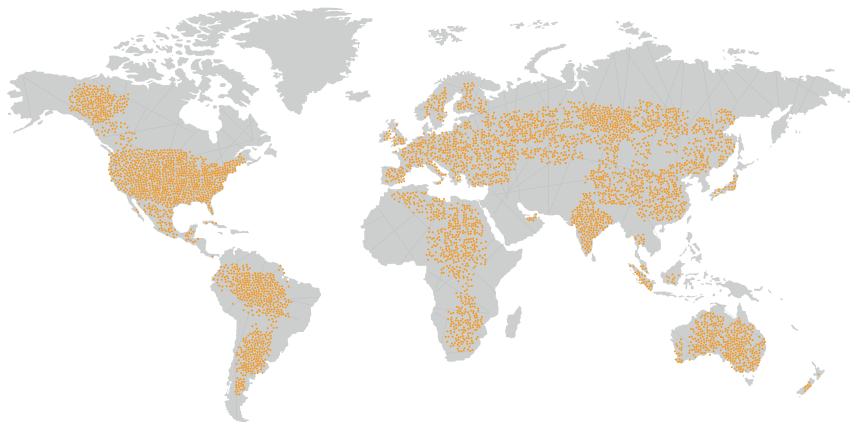


## About Strand

A History of Innovative Genomic Research

Strand Life Sciences is a global genomic profiling company and leader in precision medicine diagnostics, aimed at empowering cancer care and genetic testing for inherited diseases. Strand works with physicians and hospitals to enable faster clinical decision support for accurate molecular diagnosis, prognosis, therapy recommendations, and clinical trials. The Strand Center for Genomics & Personalized Medicine is India's 1st and only CAP & NABL accredited NGS laboratory.

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### A Trusted Partner to Companies Worldwide

For 15 years, our genomics products and solutions have facilitated the work of leading researchers and medical geneticists in over 2,000 laboratories and 100 hospitals around the world.

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