



Streamlining NGS Data Management & Analysis

Reads to Discovery

Methyl-Seq



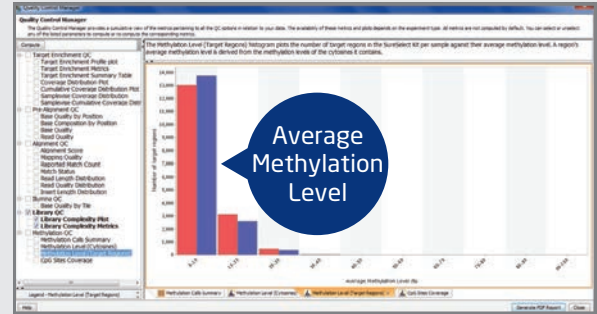
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Analyze | Visualize | Annotate | Discover

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New Generation Healthcare

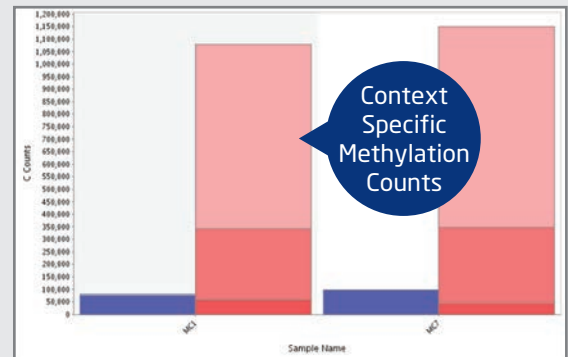
Data Import and QC

- Allows import of Bismark aligned bisulfite treated sequencing data.
- Quality metrics for pre- and post-alignment, target enrichment and library complexity.
- Compute methylation-specific QC to get information on methylation levels and CpG sites coverage for your samples.



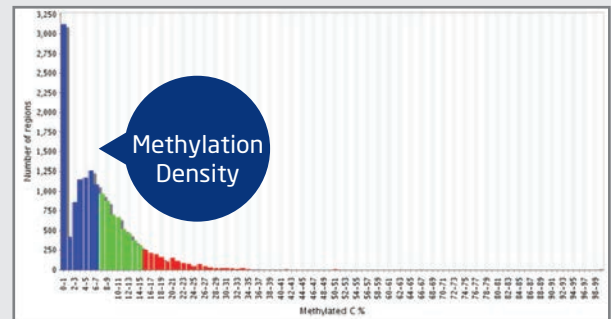
Methylation Detection

- Identify methylated cytosines for specific loci on the genome for individual samples.
- Algorithm considers bisulfite conversion error rate, sequencing error, read coverage, base quality and methylation fraction.



Intra Sample Analysis

- Identify regions with low, moderate, and high methylation density within an individual sample for target regions of interest.



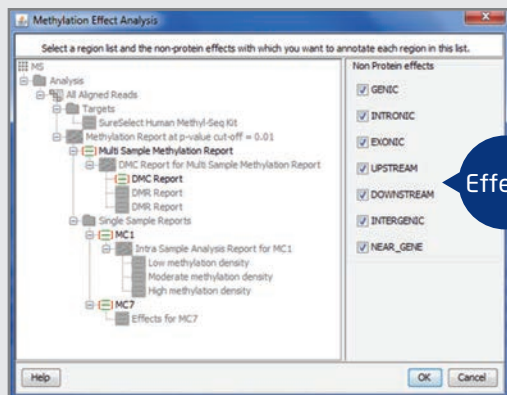
Differential Methylation

- Identify differentially methylated cytosines (DMCs) across experimental conditions/samples.
- Discover differentially methylated regions (DMRs) across experimental conditions/samples.



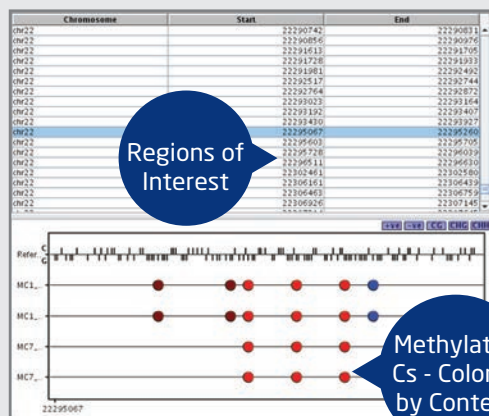
Methylation Effect Analysis

- Determine the Genomic context of the methylated or differentially methylated cytosines resulting from methylation detection and DMC analyses.
- Annotate these cytosines with the selected non-protein effects.



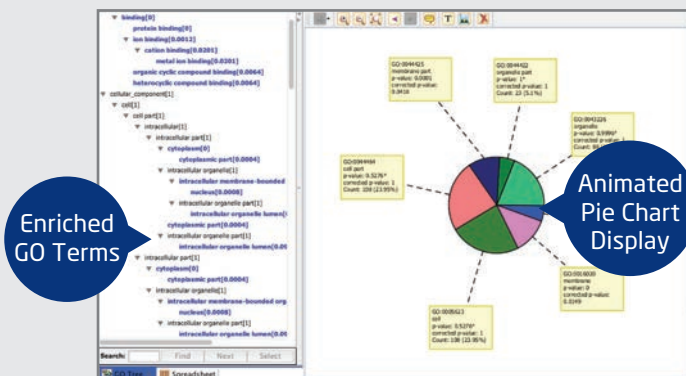
Methylation-Specific Views

- Lollipop Plot - Visualize methylated or differentially methylated cytosines by regions and samples.
- Interactive genome browser - Customized for displaying bisulfite converted reads.
- Within the GB, the methylation level histogram helps visualize the proportion of methylated cytosines compared to unmethylated cytosines in the read coverage.



GO Enrichment

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

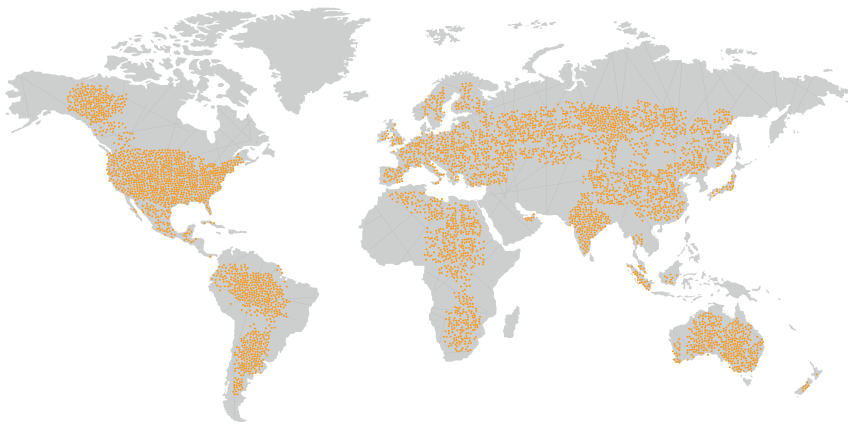


About Strand

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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