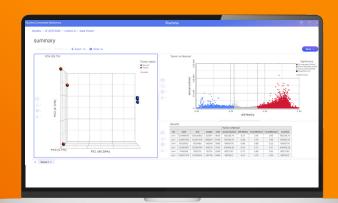
illumına[®]

Intuitive and powerful methylation analysis

with Illumina Connected Multiomics



Illumina Connected Multiomics empowers researchers to intuitively analyze large-scale, complex gene regulation data, without requiring bioinformatics expertise. Seamlessly integrate methylation data with other omics and modalities to unlock deeper biological insights.

Leveraging robust and accurate Illumina DRAGEN[®] analysis results, Connected Multiomics auto launches results directly in its interactive environment for biological exploration. The visual interface makes it easy to gain sample-level methylation insights, reduce data dimensions, cluster samples, detect and annotate biomarkers with meaningful methylation changes, and link changes to functional biological processes.

From sample preparation to data interpretation, the entire workflow is streamlined within the Illumina ecosystem. Simplify your methylation analysis and accelerate discovery.



Unlock deeper biological insights



Streamline analysis with intuitive software



Scale your studies with ease

Confidently analyze multiomic data



Interactive visualizations

Explore methylation and variant annotation from a single sequencing run with information rich and publication ready visualizations



Data Integration

Attain results you can trust with robust statistical methods



Multiomic and multimodal analysis

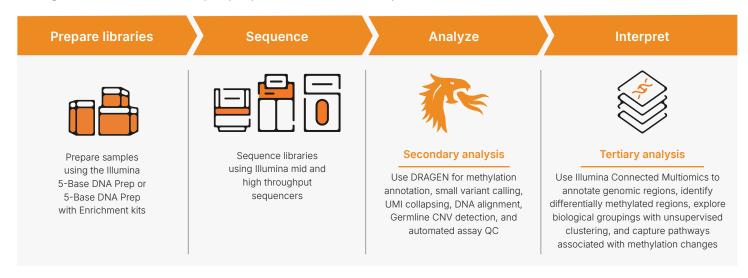
Generate variant and methylation annotations from the same data reducing time, cost, and complexity, while enabling deeper biological interpretations without additional experiments



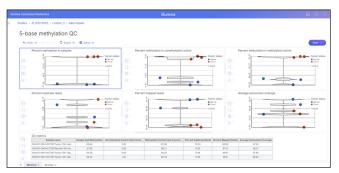
Security-first infrastructure

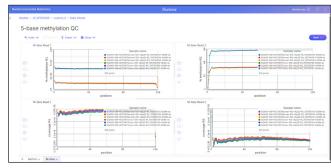
Protect the privacy of your data with industry-leading global and local security standards

A methylation workflow that integrates with the Illumina 5-base prep kits and sequencers to take biological studies from sample preparation to data interpretation.



Bring your methylation data to life with interactive visualizations





Methylation QC metrics

M-bias

These plots are generated using the 5-base methylation QC task by extracting and plotting statistics in the secondary analysis output metric files. From the QC report, we visualize sample-level QC metrics that describe reads mapping quality and DNA methylation calling quality, for e.g., percentages of CpG methylation in the samples, in the unmethylated control, and in the methylated controls.

Advanced features include:



5-base methylation QC report



Differential methylated regions (DMR) detection and annotation



PCA and clustering



Gene set and pathway enrichment analysis

800.809.4566 toll-free (US) | +1.858.202.4566 tel techsupport@illumina.com | www.illumina.com



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