Deciphering Gene Regulation with QIAGEN Digital Insights Solutions

Analyze and interpret data from experiments that help reveal more about gene regulation.

From bisulfite-sequencing to transcription factor ChIP-seq,

QIAGEN Digital Insights has the tools you need to derive insights from your data.
Intuitive tools help reveal the drivers of genomic regulation

Applications for studying gene regulation:

QIAGEN Digital Insights offers **intuitive tools** to help you reveal the **drivers of genomic regulation** that control **cellular biology**, from **signaling** to **differentiation** and **development**.
Cytosine methylation is one of the most highly-studied forms of epigenetic regulation of gene expression.

Accelerate your epigenetic discoveries with our all-in-one solution to common problems that scientists face when studying cytosine methylation data.

Explore and analyze DNA methylation with our bisulfite-sequencing tools, including advanced workflows.

Featured products:
QIAGEN CLC Genomics Workbench
Uncover mechanistic links in complex phosphoproteomics data and predict affected downstream processes or diseases.

Post-translational protein modifications (PTMs)

Predict which upstream regulators are responsible and whether those regulators are activated or inhibited, and visualize effects on downstream biological processes, diseases and established biological pathways.

Understand the cause and effect of protein phosphorylation changes.

Featured products:
QIAGEN IPA
Gene Regulation with QIAGEN Digital Insights Solutions

**Sample to Insight**

Transcription factor binding

- Gain deep insights into transcriptional regulation and epigenetic modifications.
- Transcription factor ChIP-seq exposes defined peak regions characteristic of transcription binding sites throughout the whole genome, made accessible through our interactive graphical user interface and ChIP-seq tools.

**Overview**

- Approaches and techniques
- DNA methylation
- Post-translational modifications (PTMs)
- Transcription factor binding
- Regulatory networks

**Featured products:**

QIAGEN CLC Genomics Workbench
Gene Regulation with QIAGEN Digital Insights Solutions

Understand regulatory networks by tying key regulators to the predicted downstream effects on biological and disease processes.

Build and explore transcriptional networks, microRNA-mRNA target networks, phosphorylation cascades and protein-protein or protein-DNA interaction networks and understand their impact on other signaling pathways and biological endpoints.

Visualize and compare against previous experiments and our curated set of over 500,000 samples in a variety of diseases and ‘omics areas, to drive insights into mechanisms of regulation.

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QIAGEN IPA

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The products mentioned here are intended for molecular biology applications. They are not intended for the diagnosis, prevention or treatment of a disease. For up-to-date licensing information and product-specific disclaimers, see the respective product website. Further information can be requested from TS-Bioinformatics@qiagen.com or by contacting sales at bioinformaticssales@qiagen.com.