DRAGEN

Bioinformatic analysis for microbiology

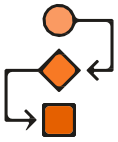
Turning microbial sequencing data into meaningful insights

Illumina offers a set of informatics tools specifically optimized for infectious disease research, public health surveillance, and microbiology. From single pathogens to complex microbial communities, Illumina delivers trusted, scalable bioinformatics solutions that help infectious disease and microbiology teams to move from sequencing data to meaningful results faster and with confidence.

Designed for every microbiology lab



Push-button analysis
Intuitive user interfaces that streamline complex analysis paths, regardless of bioinformatics experience.



Automated and validated
Reproducible pipelines thoroughly tested and optimized for Illumina sequencing workflows.



Flexible deployments
Analyze data directly on the sequencer[1] or in the cloud via BaseSpaceTM Sequence Hub.

Overview of main apps

DRAGEN™ microbial enrichment plus

Powerful, easy-to-use secondary analysis for hybrid capture enrichment panels. Supports sample QC, viral WGS, pathogen detection, quantification, and antimicrobial resistance (AMR) marker profiling.

DRAGEN™ microbial amplicon

Analyzes sequencing libraries generated from Illumina infectious disease and microbiology amplicon panel kits, such as the COVIDSeq™ Assay and Illumina Microbial Amplicon Prep (IMAP).

DRAGEN™ sWGS

The DRAGEN small Whole Genome Sequencing (sWGS) App enables read mapping of single microbial genomes to a reference genome.

DRAGEN™ 16S Plus

Kmer-based informatics solution for microbial classification and profiling from mixed flora and metagenomic experiments.

SRST2

Reports sequence types from multilocus sequence typing database, and reference genes from gene sequence database.

Microbiome Metatranscriptomics

Performs taxonomic and pathway enrichment analysis on metagenomic samples. Analyzes RNA sequencing libraries derived from microbiological communities using a four-step pipeline.



Easy access

Explore BaseSpace Sequence Hub, a highly secure, user-friendly genomics cloud-computing platform designed to simplify data management, storage, and app-driven downstream workflows across all your microbiology applications.

Learn more

BaseSpace Sequence Hub [https://emea.illumina.com/products/by-type/informatics-products/basespace-sequence-hub.html]

BaseSpace Apps [https://emea.illumina.com/products/by-type/informatics-products/basespace-sequence-hub/apps.html]

illumina®

1. For NovaSeq X Series, NextSeq 1000, NextSeq 2000 Systems, and the MiSeq i100 Series.

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