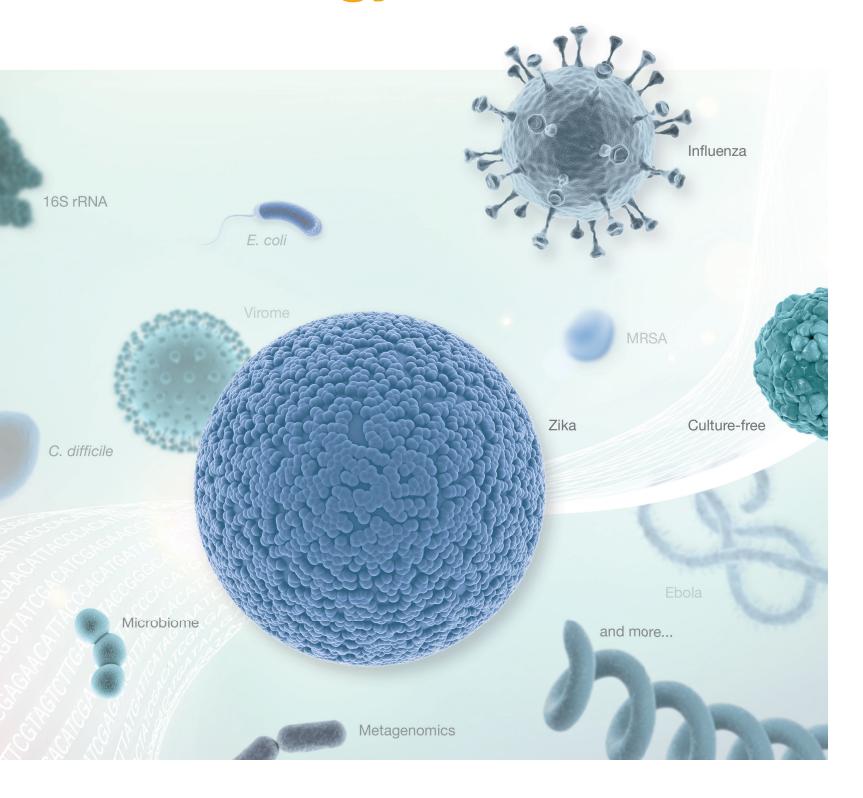


Comprehensive microbiology solutions



Illumina next-generation sequencing (NGS) offerings for microbiology

Area of Interest

- Antimicrobial resistance
- Basic research
- Epidemiology
- Infectious disease

Technology & Applications

Whole-genome sequencing

Generate accurate reference genomes for microbial identification and/or other comparative genomic studies starting from culture.

Workflow

Library preparation



Nextera[™] DNA Flex, Nextera XT Kit, TruSeq[™] DNA Kit

Sequencing options



iSeq™ System, MiniSeq[™] System, MiSea™ Series. and NextSeg[™] Series

Data analysis



Cloud: BaseSpace™ Sequence Hub On-Instrument: MiSeg Reporter

Culture-free

- Microbiome
- Bacteria and archaea
- Phylogenetic classifications

16S rRNA sequencing

Identify and compare bacteria and archaea present within a given sample.



16S library prep protocol with Nextera XT Index Kit



iSeq System, MiniSeq System, MiSea Series. NextSeq Series



Cloud: BaseSpace Sequence Hub On-Instrument: MiSeq Reporter

Community profiling

- Culture-free
- Environmental
- Microbiome
- Resistome
- Virome

Shotgun metagenomics

Identify, characterize, and detect low-abundance members of the microbial community.



Nextera DNA Flex. Nextera XT Kit



NextSeq Series, NovaSeq[™] System



Cloud: BaseSpace Sequence Hub

Virology

- Pan-viral
- Ebola
- Zika
- Influenza
- and more...

Shotgun metagenomics RNA sequencing

Gene expression, functional profiling, and viral sequencing.



Nextera DNA Flex, Nextera XT Kit, TruSeq RNA Library Prep & Enrichment



MiniSeq System, MiSeq Series, NextSeq Series, NovaSeq System



Cloud: BaseSpace Sequence Hub

Data analysis & Bioinformatics solutions

real-time over the internet to BaseSpace. The data

Whole-genome sequencing









16S rRNA sequencing





Kraken Metagenomics: Assigns taxonomic labels to short



Shotgun metagenomics





Kraken Metagenomics: Assigns taxonomic labels to short



Virology





Kraken Metagenomics: Assigns taxonomic labels to short

DNA sequences with high sensitivity and speed using exact

Getting started is easy

When you partner with Illumina, you become part of a community with more than 10,000* publications in microbiology and virology. Our 'starter bundle' packages provide training, library prep, sequencing instrument, and reagent kits that support a wide range of sample volumes. We also offer a program that allows you to trade in your sequencer for an Illumina system.

Explore the exciting discoveries our NGS solutions are enabling. Visit www.illumina.com/MicroStories and www.illumina.com/MicroWebinars.





