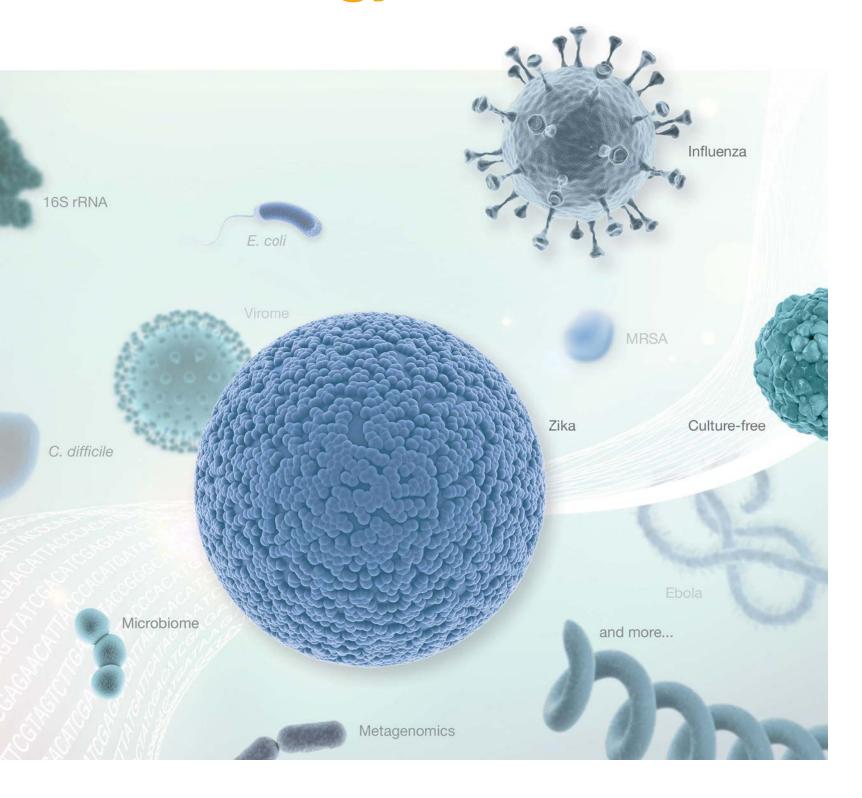
Comprehensive microbiology solutions



Illumina next-generation sequencing (NGS) offerings for microbiology

Area of Interest	Method	Workflow DNA preparation	Library preparation	Sequencing	Data analysis
MRSA C. difficile E. coli and more	Whole-genome sequencing Generate accurate reference genomes for microbial identification and other comparative genomic studies.				
			Nextera® XT Kit	MiniSeq™ System, MiSeq® Series	Cloud: BaseSpace® Sequence Hub, assemble bacteria <i>de novo</i> , SPAdes Genome Assembler, Velvet <i>de novo</i> assembly
16S rRNA	16S rRNA sequencing Identify and compare bacteria present within a given sample.				
		16S library prep protocol	Nextera XT Kit	MiSeq Series	Cloud: BaseSpace Sequence Hub Local: MiSeq Reporter, 16S metagenomics
Metagenomics Microbiome Virome Culture-free	Shotgun metagenomics Detect low abundance members of the microbial community.				
			Nextera XT Kit	NextSeq® Series, HiSeq® Series	Cloud: BaseSpace Sequence Hub, Kraken Metagenomics, MetaPhlan
Ebola Zika Influenza and more	Virology Determine the source of infection, route of transmission, and molecular pathway.				
			Nextera XT Kit	MiniSeq, MiSeq, NextSeq, and	PathSeq Virome, DeepChek-HBV,

HiSeq Series

DeepChek-HIV

Bioinformatics solutions



Whole-genome sequencing



Create a de novo assembly pipeline for bacterial



16S rRNA Sequencing



QIIME is designed to take users from raw sequencing data generated through a libit



Shotgun Metagenomics
MetaPhlAn (metagenomics



The Kraken Metagenomics app assigns taxonomic labels to short DNA sequences with



Getting started is easy

When you partner with Illumina, you become part of a community with more than 9185* 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.

*Illumina maintains an up-to-date database of all published scientific articles that use Illumina technology.

