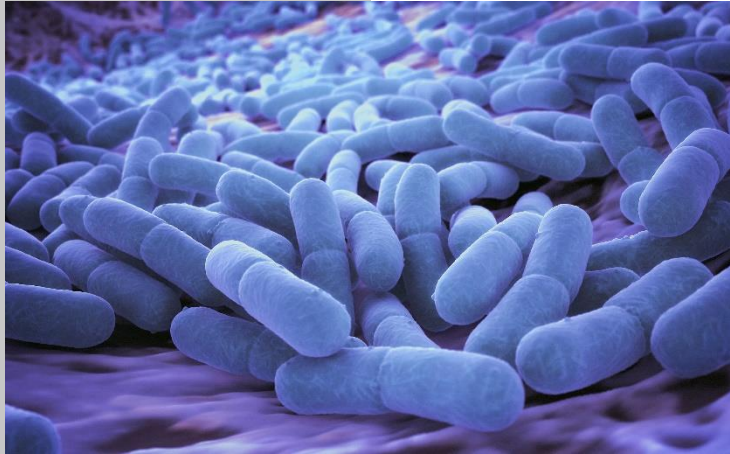


CD Genomics' Rapid Microbial Genomics Platform

Giving you complete control over microbial research using the Illumina and PacBio systems.



Exploring microbial genomics Extensive methods, endless possibilities

Microbes generally include bacteria, fungi, archaea, and protists. Many of them are critical to the environment and human life. Given their wide spread, almost everywhere on earth, microorganisms need to be well studied. Next generation sequencing enables many types of microbial studies, including their roles in the ecosystem, genome characterization, and gene functions.

CD Genomics provides comprehensive microbial solution and bioinformatics that accelerate the development of industries such as pharma, agriculture, food, and more in an environment-friendly way.

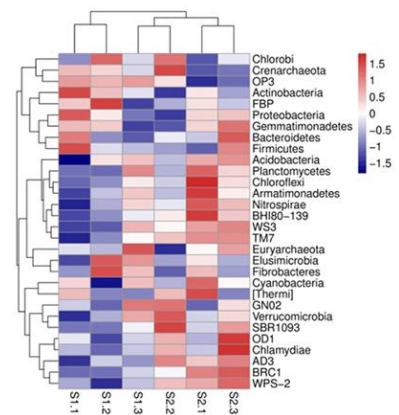
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Versatile Technology Platforms

Amplify your research with our comprehensive microbial genome solution

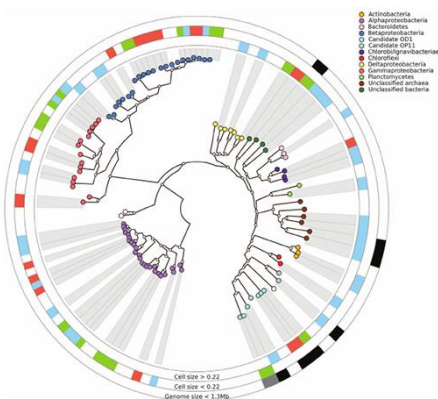
Microbial Diversity Platform

16S/18S/ITS, as the molecular marker for microbes, has enough resolution for microbial identification, which is the principle of this platform. Illumina HiSeq, PacBio SMRT sequencing, and quantitative PCR technologies are recruited for the detection and quantification of 16S/18S/ITS. This platform allows us to perform clinical, environmental, and agricultural sample analysis.



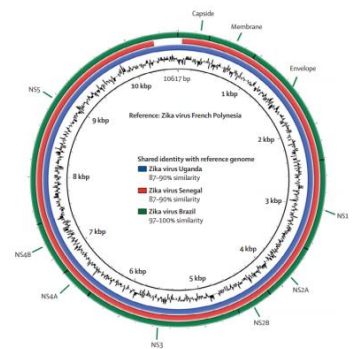
Metagenomics Shotgun Platform

Metagenomics is the study of all genetic material recovered directly from microbial communities, without the need to isolate and culture individual species. Our metagenomics platform investigates composition and the structure of microbial communities; the interactions of these microorganisms with each other, hosts; and the evolution of these interactions. This platform allows us to screen a variety of microbial strains for specific traits and characteristics that benefit humans, plants, animals, or environments.



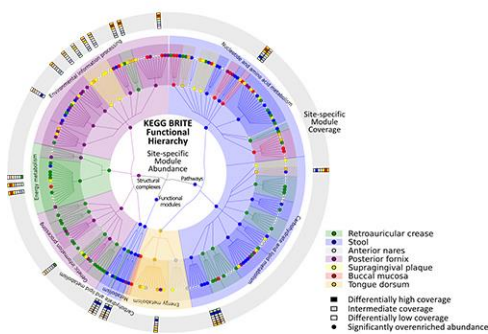
Viral Metagenomics Sequencing Platform

Our viral metagenomics can provide insights into the composition and structure of viral communities. Profiling the taxonomic composition of viral communities is important not only for basic research but also for clinical science and practice.



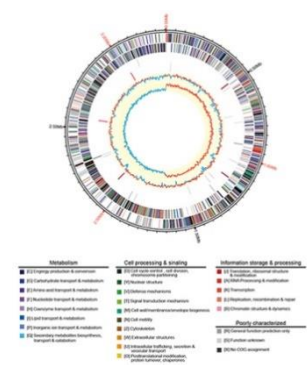
Metatranscriptomics Platform

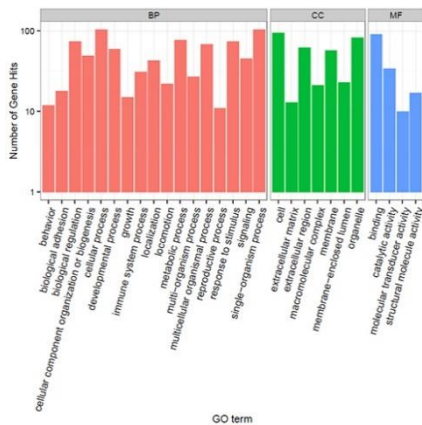
Our metatranscriptomics platform investigates the function and activity of the complete set of transcripts from environmental samples on a global scale by utilizing both short-read sequencing and full-length transcript sequencing. It tells us what kinds of microbes are present, gene activity diversity, gene expression abundance, and enables differential gene expression analysis. Compared with metagenomics, metatranscriptomics can reveal not only the genetic content of bacterial populations, but also details about populations that are transcriptionally active.



Microbial Whole Genome Sequencing Platform

Our microbial whole genome sequencing platform is dedicated to mapping genomes of novel microorganisms, completing genomes of known organisms, and comparing genomes across samples. Compared with traditional methods, high-throughput sequencing technology is capable of acquiring bacterial/fungal/viral whole-genome in a more efficient and economical manner.



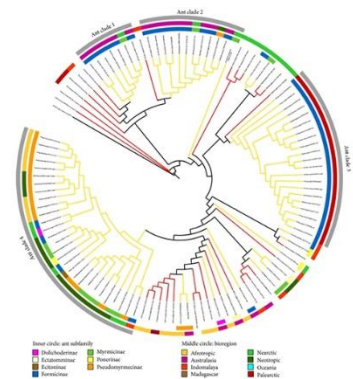


Prokaryotic RNA Sequencing Platform

The prokaryotic RNA sequencing platform is an important tool for surveying the entire transcriptomes of microbial strains, identifying putative transcriptional start sites, and defining operons and ncRNAs. Additionally, prokaryotic transcriptome sequencing provides standardized reference transcriptome to clinically and environmentally important microbial phyla and allows comparative transcriptomics.

Microbial Identification Platform

Our integrated microbial identification platform is dedicated to providing high-throughput and accurate microbial species identification services by utilizing a combination of approaches including sequencing, microarray, immunology, and biochemical analysis.



Broad Applications

Supporting Your Human Health, Pharma, Agriculture, Food, and Environment Projects.

Human Health

CD Genomics uses rich project experiences, machine learning, artificial intelligence, and advanced statistical techniques, as well as our precision sequencing process to analyze the microbes in human sample to assist researchers in basic research and microbiology-based innovations, including biomarker discovery, drug discovery and development, personalized medicine, microbial innovations and so on.

- ✧ Gut microbial Analysis
- ✧ Vaginal microbial Analysis
- ✧ Oral microbial Analysis
- ✧ Skin microbial Analysis

Environment

With the wide application of NGS in the study of environmental microorganism, it provides comprehensive experimental and technical support for the study of the mechanism of interaction between microorganism and environment. CD Genomics has extensive expertise to handle all types of environment microbiome samples from soil, air, water and so on.

Agriculture

Based on our advanced genomics platforms and powerful bioinformatics tools, we are dedicated to exploring the structural and functional characteristics of the microbial community in soil or animal. With extensive experience in agricultural microbiome research, we provide comprehensive solutions to improve crop yields or health and productivity of livestock. We have extensive expertise to handle all types of agricultural microbiome samples from soil, root, animal samples and so on.

- ✧ Crop Yield
- ✧ Animal Health and Productivity

Industry

CD Genomics is dedicated to providing reliable and affordable microbial identification services for pharmaceutical, veterinary drug, food & beverage, and cosmetic industries. We have extensive expertise to handle all types of industrial microbiome samples from water, materials, products, environment, and so on.

Accurate

Optimal sensitivity and specificity for accurate and refined results.

High Resolution

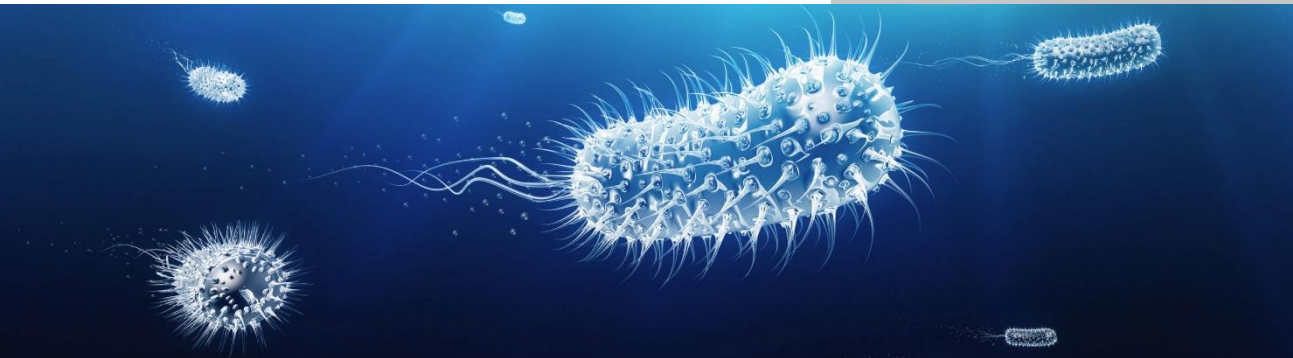
Volume discounts allow scaling to thousands of samples. More samples mean more power.

Quick, Complete Analysis

We offer high quality analytics with thorough scientific backing. Get your results in weeks instead of months.

Reproducible

Our methods reduce technical bias, resulting in better run-to-run reproducibility



Powerful Bioinformatics

Our bioinformatic staff consists of PhD-level scientists trained in computer languages, statistics, bioinformatics, genetics, and genomics. The software infrastructure for analysis is a combination of custom-built and open-source software. Our bioinformatics services take your raw next/third generation data and provide you with comprehensive figures customized to your research purposes as well as personalized data interpretation support. CD Genomics' full range of bioinformatics services can be an ideal solution for you.

MicroCollect™ Sample Collection Products

Explore Our Superior Sample Collection Products for Microbiome Studies

Oral Sample Collection Products

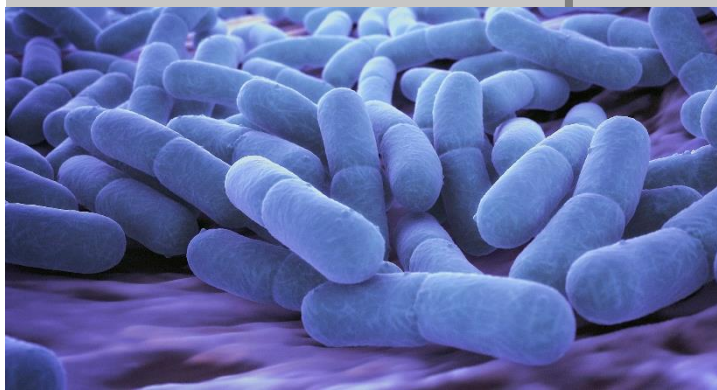
- ✧ MicroCollect™ Sterile Pack Swabs
- ✧ MicroCollect™ Oral Cell Collection and Preservation Device
- ✧ MicroCollect™ Saliva Collection Device
- ✧ MicroCollect™ Saliva DNA Collection Device
- ✧ MicroCollect™ Saliva RNA Collection Device

Stool Sample Collection Products

- ✧ MicroCollect™ Stool Swab Suite
- ✧ MicroCollect™ Stool Collection and Preservation Device

Cd

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Contact CD Genomics for more inspiration and service content.