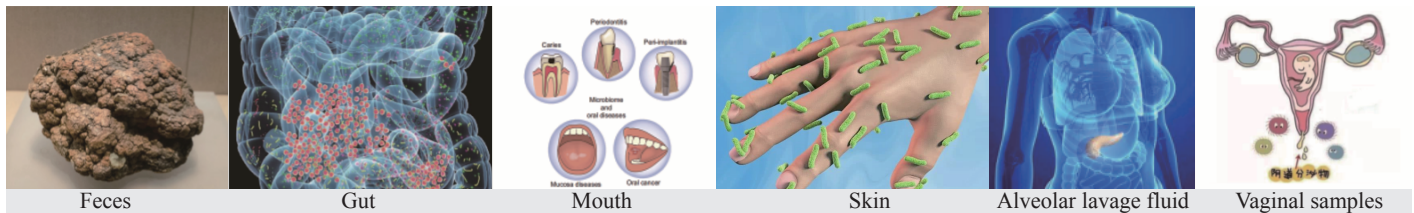


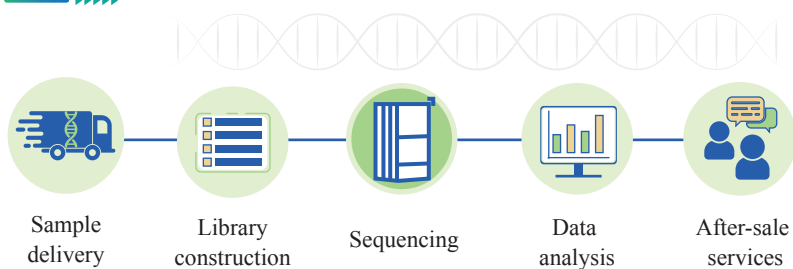
# Metatranscriptomics Sequencing (NGS)

Through high-throughput sequencing technology, BMKGENE metatranscriptomics delves into the gene expression of diverse microbes, from eukaryotes to prokaryotes, thriving in natural environments like soil, water, sea, feces, and the gut. With our comprehensive service, gain insights into the whole gene expression profiles of complex microbial communities, conduct taxonomic analysis of species, explore functional enrichment of differentially expressed genes, and beyond.

## Application



## Service Workflow



## Service Advantages

- ▶ Study the changes of complex microbial communities at the transcriptional level and explore potential new genes.
- ▶ Explaining microbial community interactions with the host or environment.

## Bioinformatics

- Transcript assembly;
- Taxonomy annotation:  
Alpha diversity and beta diversity analysis;
- Functional annotation:  
GO, KEGG, eggNOG, CAZy, CARD,  
PHI, VFDB, etc.;
- Statistics and differential analysis.

- ▶ Full suite of metatranscriptome analysis software to obtain maximum transcriptome information of microbial communities.
- ▶ The latest gene function databases for more accurate gene expression information of microbial communities.
- ▶ After-sale services: After-sale services are valid for 3 months upon project completion, including project follow-up, trouble-shooting, results Q&A, etc.

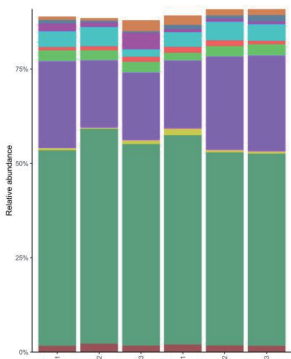
## Service Specifications

Platform	Read Length	Recommended Data
Illumina	PE150	12 G

## Sample Requirements

Qubit Conc. (ng/μL)	Amount (μg)	Volume (μL)	OD260/280
50	1.0	20	1.6-2.5

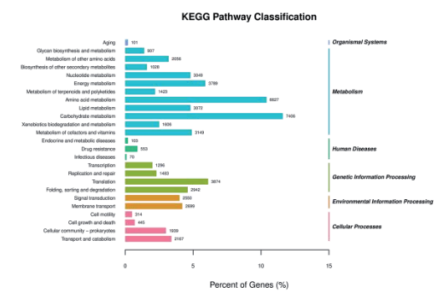
## Demo Results



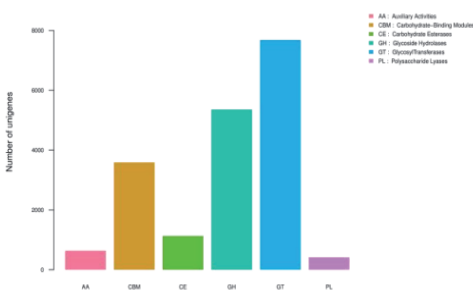
1. Relative abundance histogram



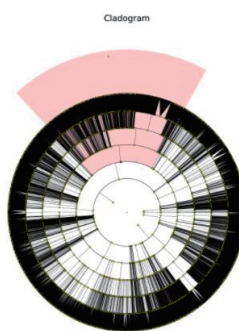
2. GO annotation



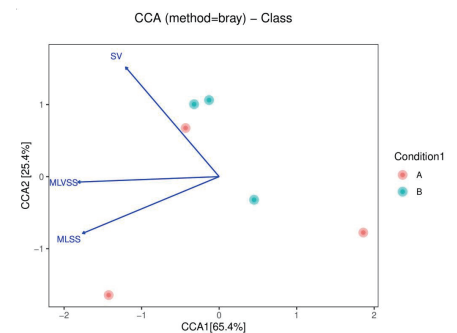
3. KEGG annotation



4. CAZy classification



5. LEfSe analysis



6. RDA/CCA



## Biomarker Technologies (BMK) GmbH

BioZ, Johann-Krane Weg tech@bmcloud.com  
 42, 48149 Münster, Germany www.bmkgene.com

Copyright©2009-2023 Biomarker Technologies (BMK) GmbH .  
 All Rights Reserved. Information and specifications are subject  
 to change at any time without notice.