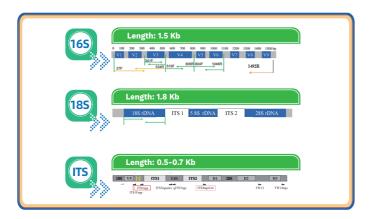


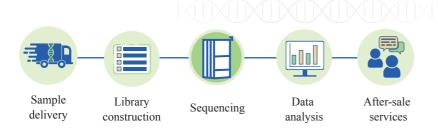
# 16S/18S/ITS Amplicon Sequencing

16S/18S/ITS amplicon sequencing empowers researchers to gain insights into the structure and functionality of microbial communities. With over 100,000 amplicon sequencing projects conducted annually, BMKGENE brings over a decade of experience, a highly skilled analysis team, comprehensive content, and excellent post-sales support. We have contributed to over 1,000 SCI publications with a cumulative impact factor exceeding 4,000.

#### Technical Features ....



# Service Workflow ....





# Bioinformatics ....

- OTU/ASV analysis
- Taxonomic annotation and relative abundance
- ▶ Alpha diversity analysis
- ▶ Beta diversity analysis
- Differential analysis between groups
- Correlation analysis
- ▶ 16S functional genes prediction

#### Service,Advantages....

- Isolation-free and rapid identification of microbial comp-osition in environmental samples;
- High resolution in low-abundant components in environmental samples;
- Dual platform to meet the needs of scientific research: Illumina NovaSeq; PacBio Revio.
- Latest QIIME2 analyzing flow with diverse analyses in terms of database, annotation, OTU/ASV.
- Primers can be customized for different rRNA gene regions to meet the researcher's goals.

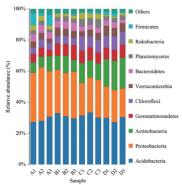


Platform	Sequencing	Recommended Data
Illumina	PE250	50 K/100 K/300 K Tags
PacBio Revio	HiFi	10 K/30 K/50 K Tags

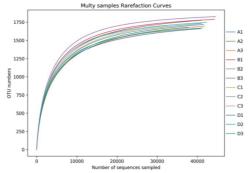
# Sample Requirements ....

Platform	Qubit Conc. (ng/µL)	Amount (µg)	Volume (μL)	OD260/280
Illumina	1	0.3	20	1.6-2.5
PacBio Revio	20	1	20	1.6-2.5

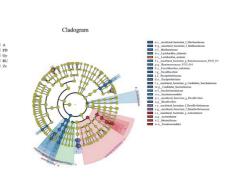
#### Demo Results ....



1.Species distribution 0 10000 Number of 2.Rare 1



2.Rare faction curve



3.Lefse analysis

### Featured Publications ....

Year	Journal	Article	Applications	DOI
2023	Microbiome	Gut microbiota-derived metabolites mediate the neuroprotective effect of melatonin in cognitive impairment induced by sleep deprivation	Disease treatment	10.1186/s40168-022-01452-3
2023	Journal of Hazardous Materials	Effects of co-modified biochar immobilized laccase on remediation and bacterial community of PAHs-contaminated soil	Environmental ecology	10.1016/j.jhazmat.2022.130372
2023	Chemical Engineering Journal	Complete removal of 4-fluorophenol using a novel optical fiber photocatalysis—biodegradation—ion-adsorption system	Ecological health	10.1016/j.cej.2023.142631

B	M	K	G	F	N	F

Biomarker	<b>Technologies</b>	(BMK)	GmbH

BioZ, Johann-Krane Weg 42, 48149 Münster, German ≥ tech@bmkcloud.com

42, 48149 Münster, Germany • www.bmkgene.com

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