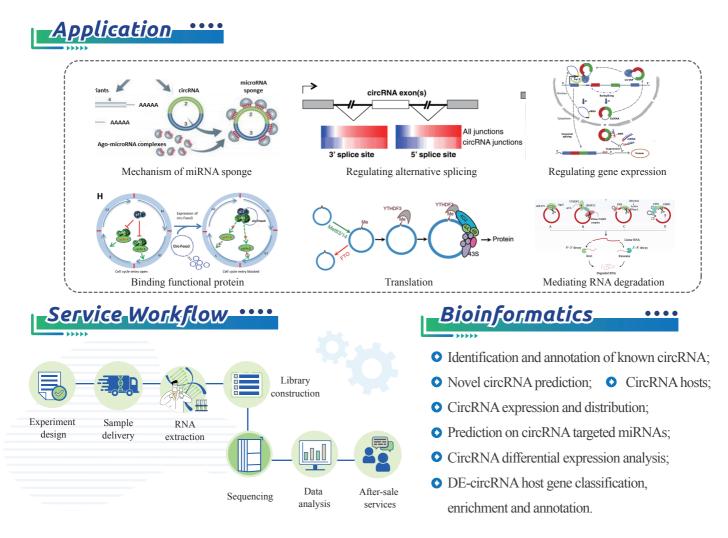


# **CircRNA** Sequencing

CircRNA (Circular RNA) is one class of non-coding RNA molecules that is short of 5' end cap and 3' end poly (A) tail. CircRNA performs circularstructure by the covalent bond which is status against RNA exonuclease digestion. To explore the pivotal role of circRNA in organismal growth, development, and environmental resilience, with BMKGENE's cutting-edge technology, delve into the intricate world of circRNA and unlock new insights into the regulatory mechanisms shaping life's complexities.



### Service,Advantages ·····

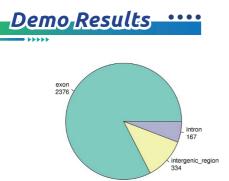
- 1 Identification and statistics on known circRNA and novel circRNA prediction.
- 2 Exploring the correlation between circRNA and mRNA expression regulation, study the regulatory system of circRNA-miRNA-mRNA.
- 3 Unveil the intricacies of circRNA's function and regulatory mechanisms, and explore its interactions with mRNA, lncRNA, and miRNA.
- **4** Unlock the dynamic expression patterns of circRNA across various tissues, cell types, and developmental stages, comprehensive detection and profiling of circRNA.
- 5 After-sale services: After-sale services are valid for 3 months upon project completion, including project follow-up, trouble-shooting, results Q&A, etc.

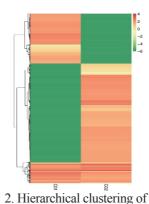
## Service Specifications ·····

(	Library	Platform	Recommended Data	Data Quality
	rRNA depletion	Illumina NovaSeq	16 Gb	$Q30 \geq 85\%$

## Sample Requirements

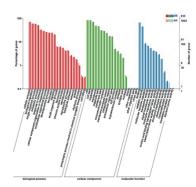
Amount	Purity	Integrity	
Conc. $\geq 100 \text{ ng/}\mu\text{L};$		For plants: RIN $\ge$ 6.5;	
	OD260/280=1.7-2.5	For animals: RIN $\geq$ 7.0;	
Volume $\geq 10 \ \mu L;$	OD260/230=0.5-2.5	$5.0 \ge 28S/18S \ge 1.0;$	
Total $\ge$ 0.5 µg	5 μg Limited or no protein or DNA contamination shown on gel.	limited or no baseline elevation	





differentially expressed circRNAs

1. Distribution of circRNA host



3. GO classification of DE-circRNA host genes

# Featured Publications ·····

Year	Journal	Article	Applications	DOI
2023	International Immunopharmacology	Comprehensive evaluation of circRNAs in cirrhotic cardiomyopathy before and after liver transplantation	Disease treatment	10.1016/j.intimp.2022.109495
2023	Research Square	CPSF3 modulates the balance of circular and linear transcripts in hepatocellular carcinoma	Disease treatment	10.21203/rs.3.rs-2418311/v1
2023	Phytopathology Research      Xoo-responsive transcriptome reveals the role of the circulation in disease resistance by regulating expression of OsAR		Disease resistance	10.1186/s42483-023-00188-8

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