

Table R1 Tools of dealing RNA-seq data and version information

Procedure	Name of tool	Version
Quality control	Fastqc	0.11.5
Map reads	Hisat2	2.0.0-beta
	Samtools	1.5
Transcript assembly	Stringtie	1.3.3b
Compare with annotation gtf	Cuffcompare	2.2.1
Difference analysis	Cuffdiff	2.2.1
Filter by quality/length/ORF/CPC	Shell & Perl script	-

Table R2 Release versions of databases and annotations

Database/Annotation	Release version
miRBase	miRBase 22
Human genome	GRCh38.91
Mouse genome	GRCm38.91
Rat genome	Rnor_6.0.91

Table R3 Tools of database construction

Procedure	Name of tool	Version
Data storage	Mysql	5.1.73 for redhat-linux-gnu
Web server	Apache	2.2.15
Website backend	PHP	5.3.3
Website frontend	Bootstrap	3.3.7
Interactive chart	Echarts	4.0.4
Genome visualization module	Biodalliance	0.13