BioLockJ requires Java 1.8+ and a Unix-like operating system such as Darwin/macOS.

- Dependencies are required by modules listed in the **BioModule Function** column.
- Users **DO NOT NEED TO INSTALL** dependencies if not interested in the listed modules.
- For example, if you intend to classify 16S samples with RDP and WGS samples with Kraken, do not install:

Bowtie2, GNU Awk, GNU Gzip, MetaPhlAn2, Python, QIIME 1, or Vsearch.

#	Program	Version	BioModule Function	Link
1	Bowtie2	2.3.2	Metaphlan2Classifier: Build reference indexes	download
2	GNU Awk	4.0.2	AwkFastaConverter: Convert Fastq to Fasta BuildQiimeMapping: Format metadata as QIIME mapping QiimeClosedRefClassifier: Build batch mapping files	download
3	GNU Gzip	1.5	AwkFastaConverter: Decompress .gz files Gunzipper: Decompress .gz files	download
4	Kraken	0.10.5- beta	KrakenClassifier: Report WGS taxonomic summary	download
5	MetaPhlAn2	2.0	Metaphlan2Classifier: Report WGS taxonomic summary (WGS)	download
6	Python	2.7.12	BuildQiimeMapping: Run validate_mapping_file.py MergeQiimeOtuTables: Run merge_otu_tables.py QiimeClosedRefClassifier: Run pick_closed_reference_otus.py QiimeDeNovoClassifier: Run pick_de_novo_otus.py QiimeOpenRefClassifier: Run pick_open_reference_otus.py QiimeClassifier: Run add_alpha_to_mapping_file.py, add_qiime_labels.py, alpha_diversity.py, filter_otus_from_otu_table.py, print_qiime_config.py, and summarize_taxa.py Metaphlan2Classifier: Run metaphlan2.py	download
7	PEAR	0.9.8	Paired-End reAd merger PearMergeReads Merge paired Fastq files since some classifiers (RDP & QIIME) will not accept paired reads.	download
8	QIIME 1	1.9.1	Quantitative Insights Into Microbial Ecology BuildQiimeMapping: Validate QIIME mapping MergeQiimeOtuTables: Merge otu_table.biom files QiimeClosedRefClassifier: Pick OTUs by reference QiimeDeNovoClassifier: Pick OTUs by clustering QiimeOpenRefClassifier: Pick OTUs by reference and clustering QiimeClassifier: Report 16S taxonomic summary	download
9	R	3.5.0	R_CalculateStats: Statistical modeling R_PlotPvalHistograms: Plot p-value histograms for each reportable metadata field R_PlotOtus: Build OTU-metadata boxplots and scatterplots R_PlotMds: Plot by top MDS axis	download