

Analysis Step	RNASeq Tools
Quality Check	FastQC (Standalone)
Alignment	TopHat2 (bash) Hisat2 (bash)
Read counts	HTSeq (Python), Rsubread::featureCounts (R)
Normalization and filtering	Noiseq::UQUA (R), Noiseq::RPKM (R)
Diagnostic plots	Boxplot PCA MDS
Batch effect estimation	swamp::confounding, swamp::prince, swamp::prince.plot, limma::plotMDS
Batch effect mitigation	sva::ComBat RUVSeq::RUVg - RUVs - RUVr
Differential Expression	edgeR::exactTest edgeR::glmFit Deseq2::DESeq NOISeq::noiseq - noiseqbio