

# RNA-Seq Data Analysis Course

## Selected Resources

A comprehensive overview of all aspects of RNA-Seq from sample preparation to data analysis

<https://rnaseq.uoregon.edu/>

A Survey of Best Practices for RNA-Seq Data Analysis

<https://genomebiology.biomedcentral.com/track/pdf/10.1186/s13059-016-0881-8.pdf>

Current best practices in single-cell RNA-Seq analysis: a tutorial

<https://www.embopress.org/doi/epdf/10.15252/msb.20188746>

Workflow and Software Tools overview

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4742321/>

'edgeR' package – original paper, user guide, normalisation method

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2796818/>

<http://bioconductor.org/packages/release/bioc/vignettes/edgeR/inst/doc/edgeRUsersGuide.pdf>

<https://genomebiology.biomedcentral.com/articles/10.1186/gb-2010-11-3-r25>

'limma' package User Guide (see chapter 15 for analysing RNA-Seq data)

<https://www.bioconductor.org/packages/devel/bioc/vignettes/limma/inst/doc/usersguide.pdf>

StatQuest by Josh Starmer

A huge library of short, very watchable videos on statistics and analysis, explained conceptually and usually with reference to gene expression or other typical biological/genetics data

<https://statquest.org/video-index/>

Blogs on transcriptomics data, plotting and visualisation

<https://blog.bioturing.com/>