Basic quality control with FastQC

June 2021

Differential Gene Expression Analysis Workflow

Fastq file format

Fastq file format - Headers

Fastq file format - Sequences

Fastq file format - Quality Scores

QC is important

Check for any problems before we put time and effort into analysing potentially bad data

- Start with FastQC
 - Quick
 - Outputs an easy to read html report

We run fastQC from the terminal with the command

fastqc <fastq>

but there are lots of other parameters which you can find to tailor your QC by typing

fastqc -h

Per base sequence quality

Good Data

Per base sequence content

Good Data

Per sequence GC content

Good Data

Adaptor content

Good Data

And now onto the exercise...

- ► Go to: https://ushers.bio.cam.ac.uk/guacamole2
- Log on with YOUR credentials that were emailed to you