

WHO Collaborating Centre for Reference and Research on Influenza VIDRL





Case Study

<Name>
<Affiliation>









A joint venture between The University of Melbourne and The Royal Melbourne Hospital









Quality Assessment of FASTQ files

- Describe the quality of your sequence data.
- Is the quality of your sequence high or low?
- What is the median Q score of your sequence?









- Summarize the results of genome assembly on your sequence.
- What is the coverage depth, breath of coverage?

Quality Assessment of Consensus Sequence







Describe the quality of your consensus sequence









Annotation

- Which clade/lineage your samples belong to? What are the characteristic amino acid substitutions of this clade/lineage?
- What amino acid substitutions of epidemiological interest (e.g. antiviral resistance, vaccine effectiveness, pathogenicity, etc.) are present in your samples?









Phylogenetic analysis

- Describe the topology the your phylogenetic tree.
- Which reference virus (or vaccine strain) your samples clustered together?











• Interpret and discuss your results