

Nextclade Demonstration

- Download your sequences from Galaxy
- Loading consensus sequences into Nextclade
- Selecting datasets
- Interpreting results
- Exporting results

Nextclade Practice

Use your own data to answer these questions:

- 1. What is the clade/lineage of each sample?
- 2. Suspected country of origin?
- 3. Check each samples QC metrics, which would you use for:
 - Clade/Lineage calling?
 - Phylogenetic analysis?
 - Speciation?
- 4. Check for odd genomic features (premature stop, gaps, etc).
- 5. Which samples would you pass/fail?

Questions? + Resources

- Nextclade website: https://clades.nextstrain.org
- Documentation: https://docs.nextstrain.org/projects/nextclade
- Nextclade is also a CLI tool and is avaliable in Galaxy.
 - https://docs.nextstrain.org/projects/nextclade/en/stable/user/next clade-cli/index.html
 - The web interface is excellent, provides all the features of the CLI and even more.
- CZID Consensus QC help page: <u>https://chanzuckerberg.zendesk.com/hc/en-us/articles/13619776085780-Consensus-Genome-Quality-Checks</u>