COVID-19 Specimen Data Processing: nextclade\_code.R Fill in **starting\_path**. This is IMPORTANT: All nextclade file names should follow the same Libraries Needed: the path from your own machine to Box/DropBox library(tidyverse) library(lubridate) Ex. "C:/Users/juliegil/Box Sync/" formatting. <YYYYMMDD>\_Plate\_<#>\_<#>\_nextclade.tsv library(janitor) YYYYMMDD = Date when the nextclade file was made # = 1, 2, 3, ..., n; Plate number as assigned in the lab that correspond to the samples contained in each particular file Fill in the nextclade folder nc\_fp = "SampleMetadataOrganization/SequenceOutcomes/nextclade" path Overview: This code file pulls in all nextclade files as generated by the lab. Those files are processed and then a summary file is output. Fill in **outputLOC**, the output location of the nextclade file ----- "SampleMetadataOrganization/SequenceOutcomes/SequenceOutcomeComplete" compilation Store the name of every .tsv file in nc\_fp in file\_list Created as empty dataframe first, then gets filled in later in Create nc\_storage our process. Iterate through every file in file\_list Read in the plate map file as nc1 Select only the following columns from nc1: seqName, clade, totalMissing, qc.overallScore, qc.overallStatus Row bind these rows to **nc\_storage C**\_\_\_\_\_\_\_\_ The columns of **nc\_storage** are renamed as:

"SampleID", "nextclade\_clade",

"nextclade\_totalMissing",

"nextclade\_qcOverallScore",

"nextclade\_qcOverallStatus" 100\*(29903 -Calculate the column of as.numeric(nc\_storage\$nextclade\_totalMissing)) / nextclade\_completeness 29903

The final version of nc\_storage is written as a csv file (called sample\_full\_nextclade\_list.csv) to the output location.