## COVID-19 Genomics Insights Dashboard (CGID) #31

The COVID-19 genomics insights dashboard (CGID) provides a public and high-level overview of viral genomic surveillance across Aotearoa, New Zealand. It aims to explain how whole-genome sequencing (WGS) complements other epidemiological data to support public health decision-making. As SARS-CoV-2, the virus that causes COVID-19, continues to adapt, mutate, and spread, the CGID reports trends and insights gained by our WGS surveillance programme here in Aotearoa New Zealand, and abroad.

## Summary Infographics & Insights:



The CGID report is produced 'at pace' by ESR in collaboration with Massey University, University of Auckland, and University of Otago. Data & insights are subject to change and correction



*Figure 1: Frequency of SARS-CoV-2 variants in the New Zealand community each week (for the past 16 weeks) as determined by whole-genome sequencing.* Only variants with a frequency above 1% are shown. Data is subject to change as samples will still be added to the most recent two-week period. Frequencies from the last reporting week represent 47 samples [The category 'unassigned' is typically where a partial genome has been recovered, and a definitive assignment to a variant is not possible].



*Figure 2: Representation of COVID-19 variants among reinfections and apparent first cases.* Each point represents a SARS-CoV-2 variant currently tracked by ESR. The position of points on the Y-axis represents the proportion of all sequenced reinfections associated with this variant, and the position on the x-axis represents the proportion of apparent first cases. Reinfections are defined as a positive COVID-19 test greater than 28 days following an initial positive test.

