

This page shows the frequency of the top 6 "L2" lineages, across recent months.

The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "BA.2.86.*" group includes BA.2.86 and all it's descendants, e.g. the JN.* lineages.

The detailed Lineage classifications are quite numerous and dynamic, so the "Lineage L2" groups give a simpler and more stable basis for analysis and comparison.

The frequency shown at each point is based on the 7-day rolling average across all lineages.

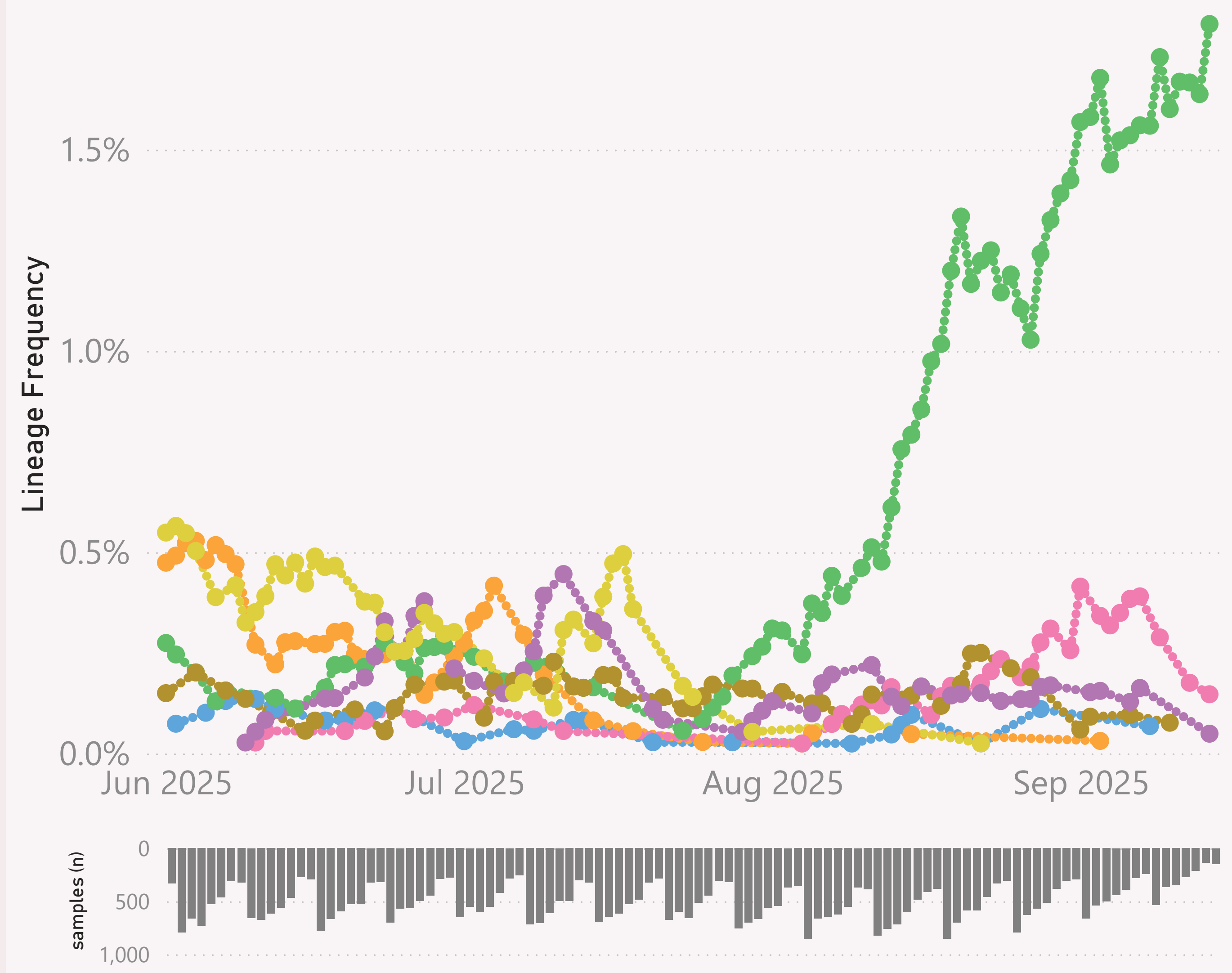
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=53,525 sequenced genomes, from 1 June 2025 up to 14 September 2025

Global

● MC.10.2.1 ● MC.21.1 ● PE.1.4 ● PE.1.4.2 ● PE.2 ● PE.3 ● PG.3.1



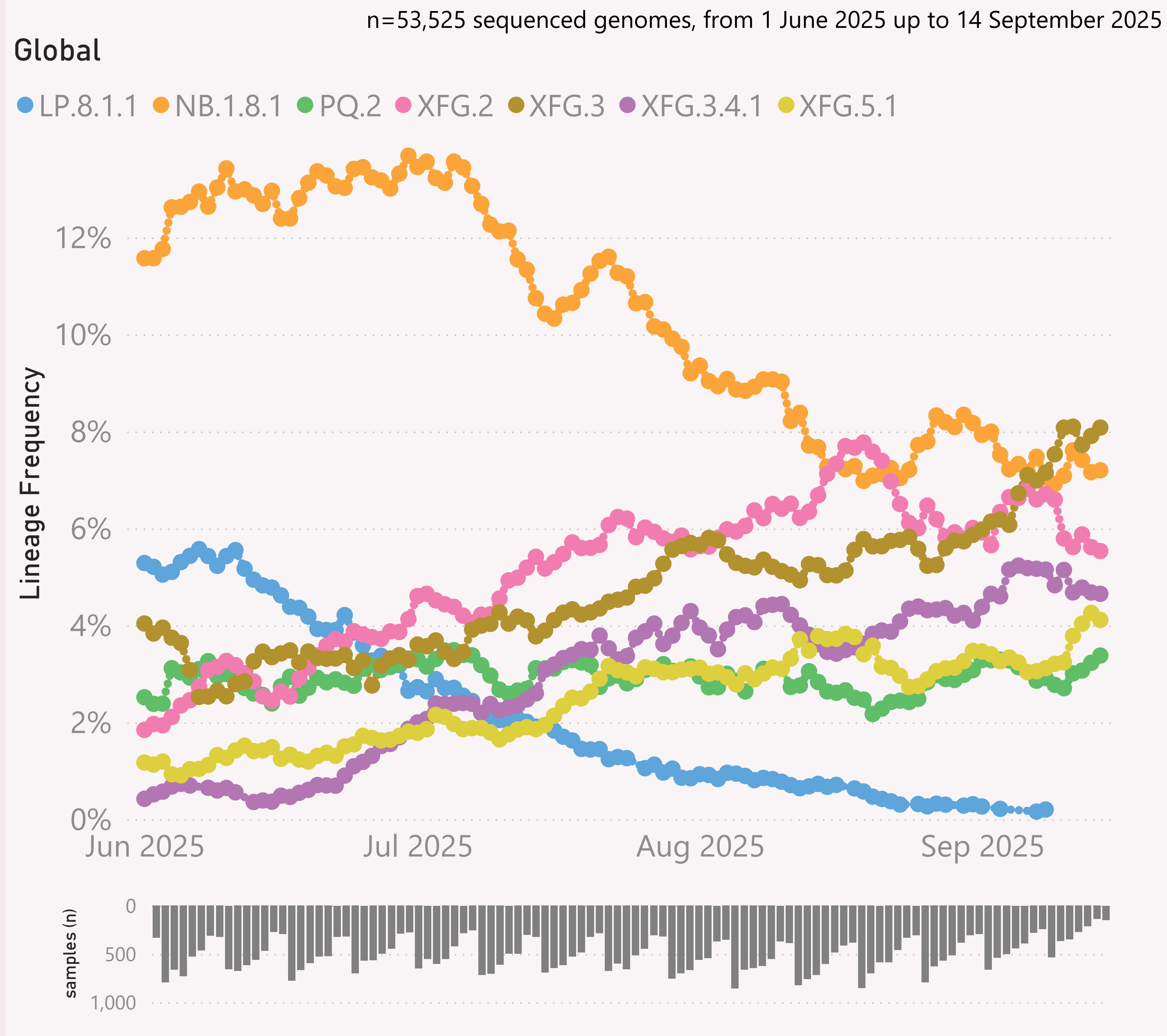
This page shows the frequency of the top 7 lineages, across recent months. The lineages are filtered for a "Lineage L2" group of interest.

The Lineage classifications are provided by Nextclade. The colour assignments are random.

The frequency shown at each point is based on the 7-day rolling average across all lineages.

The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.



This page shows the frequency of the top 7 lineages, across recent months.

The Lineage classifications are provided by Nextclade. The colour assignments are random.

The frequency shown at each point is based on the 7-day rolling average across all lineages.

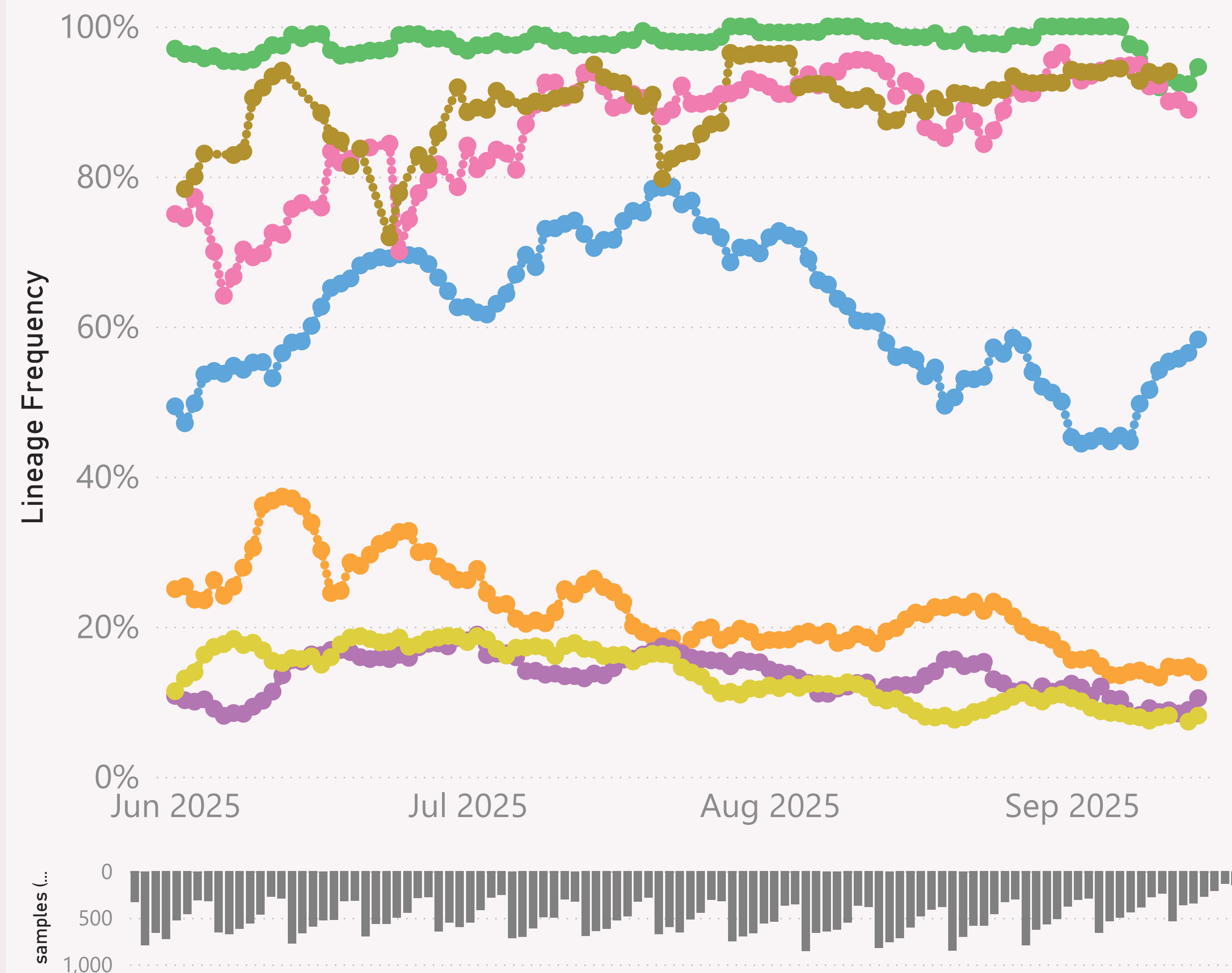
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=53,525 sequenced genomes, from 1 June 2025 up to 14 September 2025

NB.1.8.1.* Nimbus

● Australia ● Canada ● China ● Japan ● South Korea ● Spain ● United States



This page shows the frequency of a selected "Lineage L2" group of interest, for the 7 countries reporting the most samples over recent months.

The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "JN.1.* +FLiRT" group includes the descendants of JN.1.* with the mutations: F456L & R346T.

The detailed Lineage classifications are quite numerous and dynamic, so the "Lineage L2" groups give a simpler and more stable basis for analysis and comparison.

The frequency shown at each point is based on the 7-day rolling average across all lineages, for that country.

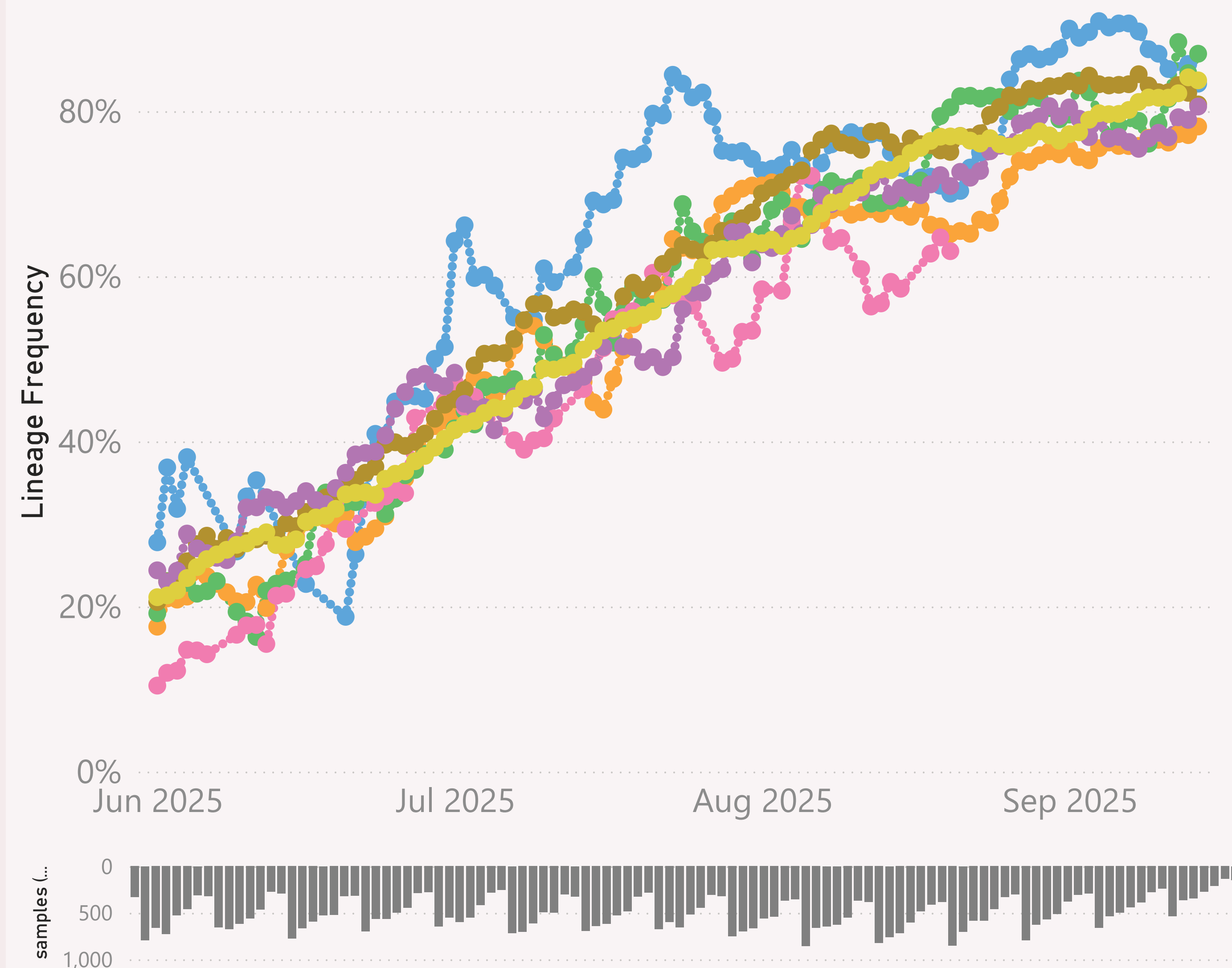
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=53,525 sequenced genomes, from 1 June 2025 up to 14 September 2025

XFG.*

● Brazil ● Canada ● France ● Singapore ● Spain ● United Kingdom ● United States



This page shows the frequency of a selected "Lineage L2" group of interest, for the 7 countries reporting the most samples over recent months.

The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "JN.1.* +FLiRT" group includes the descendants of JN.1.* with the mutations: F456L & R346T.

The detailed Lineage classifications are quite numerous and dynamic, so the "Lineage L2" groups give a simpler and more stable basis for analysis and comparison.

The frequency shown at each point is based on the 7-day rolling average across all lineages, for that country.

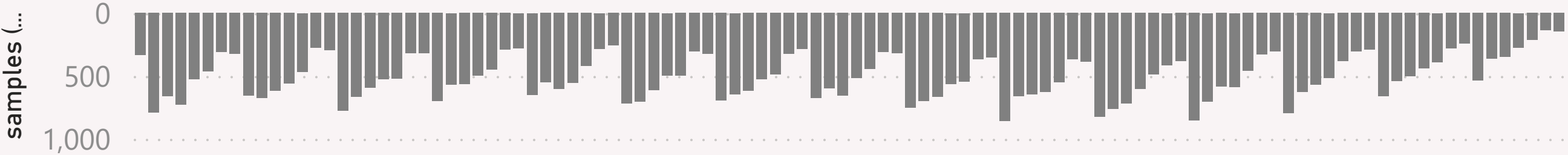
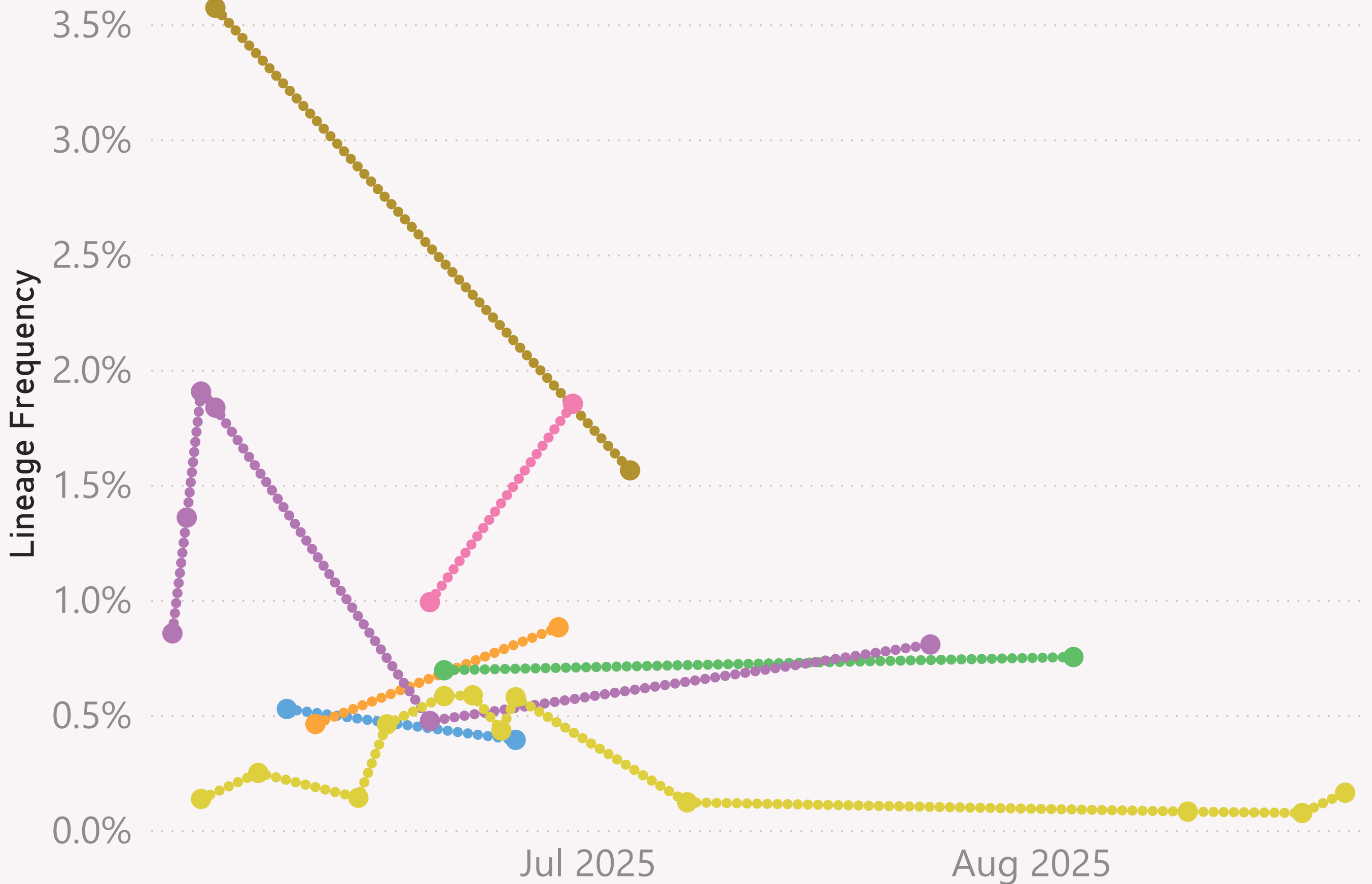
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

The frequency results calculated for the most recent dates might not be representative, due to those lower sample sizes.

n=53,525 sequenced genomes, from 1 June 2025 up to 14 September 2025

XFP

AustraliaCanadaFranceIndiaIrelandSingaporeUnited States



Date

01/01/202531/12/2025

Host

Human

Continent, Country, Location

All

Lineage L2, Lineage (nextclade)

XFP.* (Lineage L2) + XFP (Lineage (nextclad...

Samples Sequenced (gisaid)

39

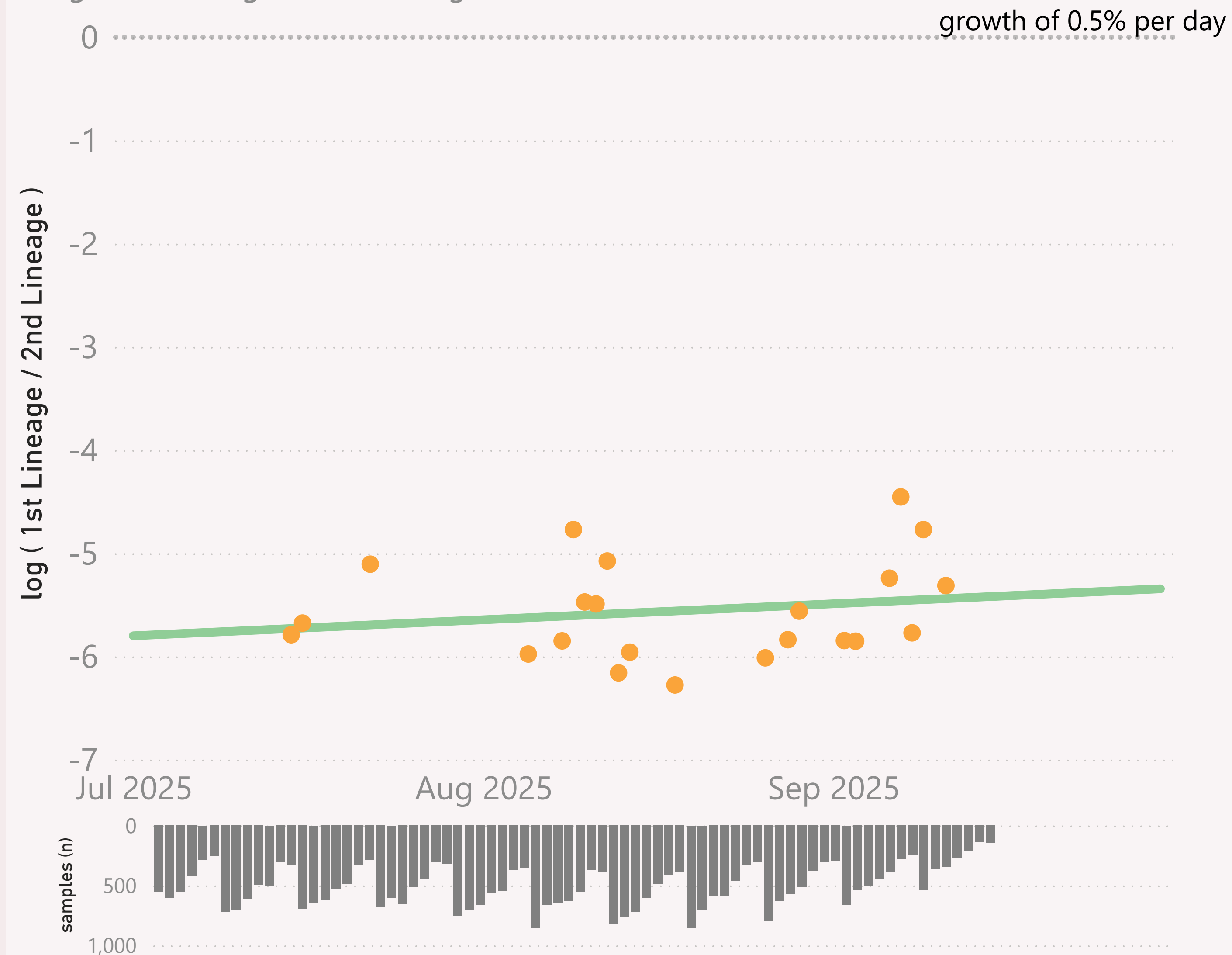
Country	Location	Addi...	Collection date	Lineage L2	Lineage (nextc
USA	Illinois		23/08/2025	XFP.*	XFP
USA	California		20/08/2025	XFP.*	XFP
USA	California		12/08/2025	XFP.*	XFP
France	Auvergne-Rho...		04/08/2025	XFP.*	XFP
Singapore			25/07/2025	XFP.*	XFP
Luxembourg			24/07/2025	XFP.*	XFP
Japan		Quar...	15/07/2025	XFP.*	XFP
USA	Texas		08/07/2025	XFP.*	XFP
Ireland	Dublin		04/07/2025	XFP.*	XFP
India	Maharashtra		30/06/2025	XFP.*	XFP
Canada	Ontario		29/06/2025	XFP.*	XFP
Germany	Rhineland-Pala...		27/06/2025	XFP.*	XFP
United Kingdom	Wales		27/06/2025	XFP.*	XFP
USA	Minnesota		26/06/2025	XFP.*	XFP
Australia	Victoria		26/06/2025	XFP.*	XFP
USA	Minnesota		25/06/2025	XFP.*	XFP
USA	California		23/06/2025	XFP.*	XFP
USA	Oregon		21/06/2025	XFP.*	XFP
France	Provence-Alpe...		21/06/2025	XFP.*	XFP
Singapore			20/06/2025	XFP.*	XFP
India	Chhattisgarh		20/06/2025	XFP.*	XFP
USA	Massachusetts		17/06/2025	XFP.*	XFP

Total

n=38,099 sequenced genomes, from 1 July 2025 up to 14 September 2025

Global - XGA vs XFG.*

● $\log (1\text{st Lineage} / 2\text{nd Lineage})$ ● trend



This page compares the relative frequency of 2 selected "Lineage L2" groups, over recent months. A challenging Lineage L2 is selected first, and compared to the incumbent.

The trend is shown as a green line and expressed as a daily growth % advantage. If the green line crosses over the 0.0 line, the date when that occurred or is predicted to occur will be shown. At that point the challenging Lineage L2 is considered to have "crossed over" or taken over dominance from the incumbent Lineage L2.

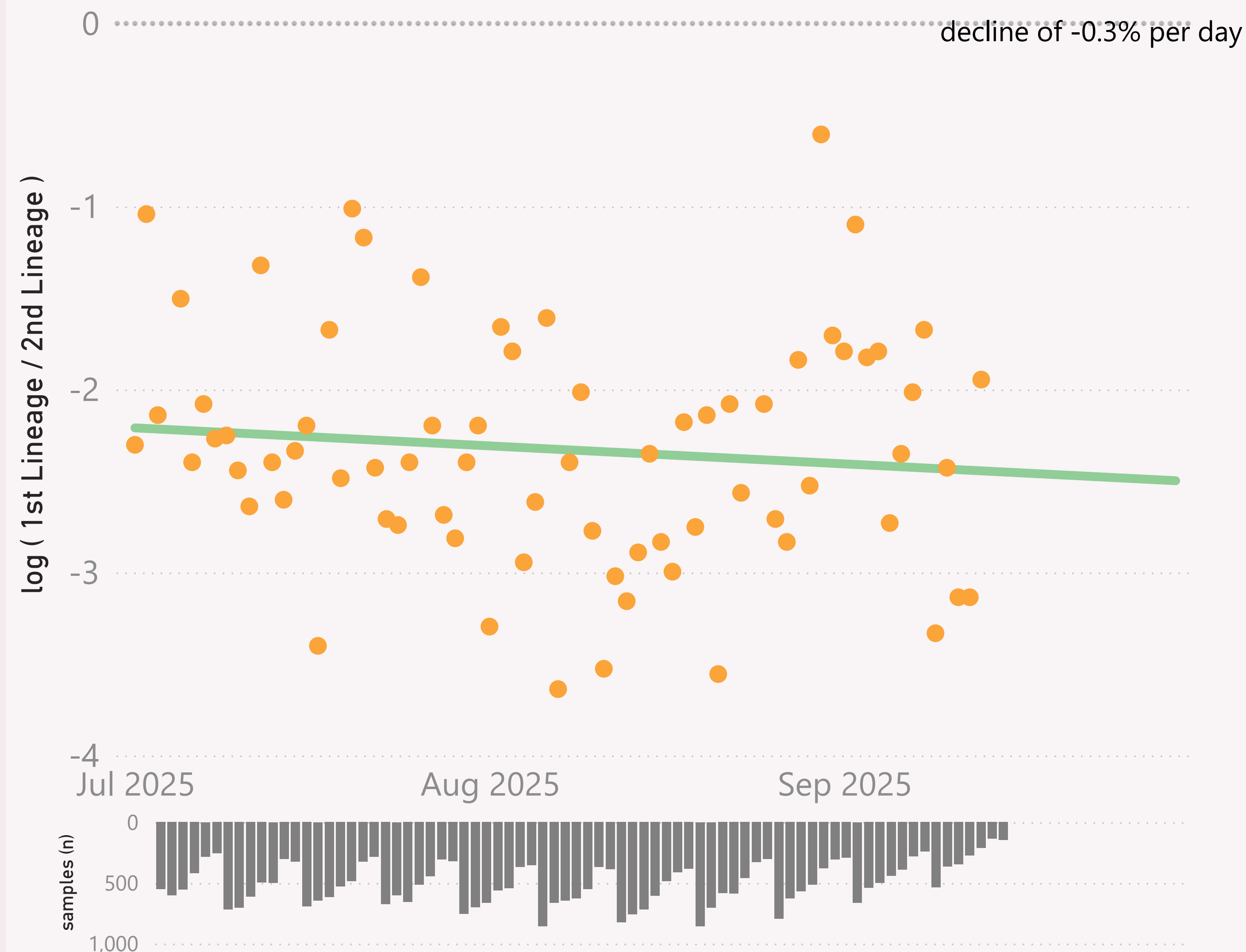
The Lineage classifications are provided by Nextclade. I add the "Lineage L2" groups, typically following common variant groupings, but occasionally being "creative".

The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

n=38,099 sequenced genomes, from 1 July 2025 up to 14 September 2025

Global - PY.1.1.1 vs XFG.3

● $\log (1st \text{ Lineage} / 2nd \text{ Lineage})$ ● trend



This page compares the relative frequency of 2 selected Lineages, over recent months. A challenging Lineage is selected first, and compared to the incumbent.

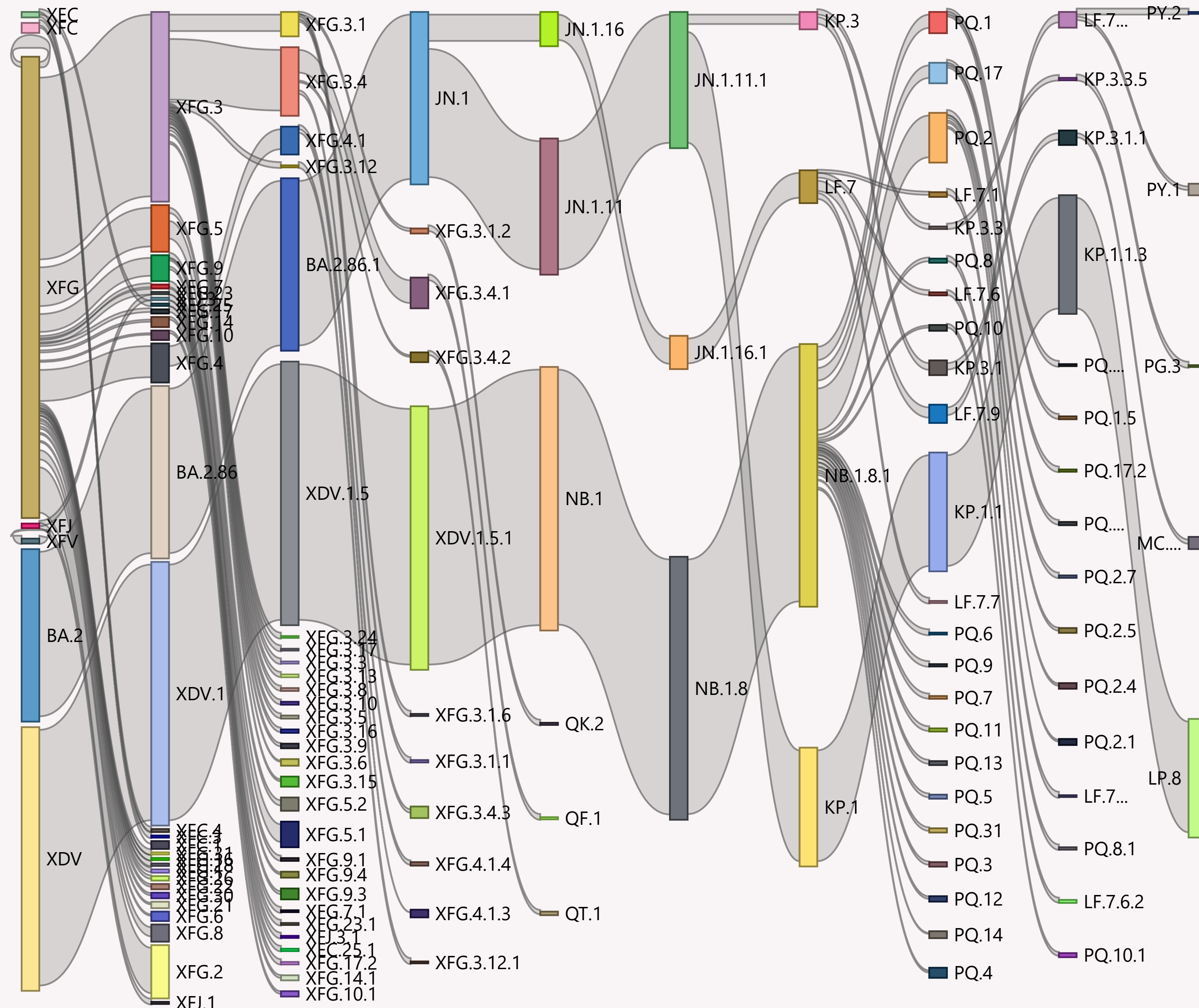
The trend is shown as a green line and expressed as a daily growth % advantage. If the green line crosses over the 0.0 line, the date when that occurred or is predicted to occur will be shown. At that point the challenging Lineage is considered to have "crossed over" or taken over dominance from the incumbent Lineage

The Lineage classifications are provided by Nextclade.

The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

n=53,525 sequenced genomes, from 1 June 2025 up to 14 September 2025

Global



This page shows the hierarchy of the significant Lineages, over recent months.

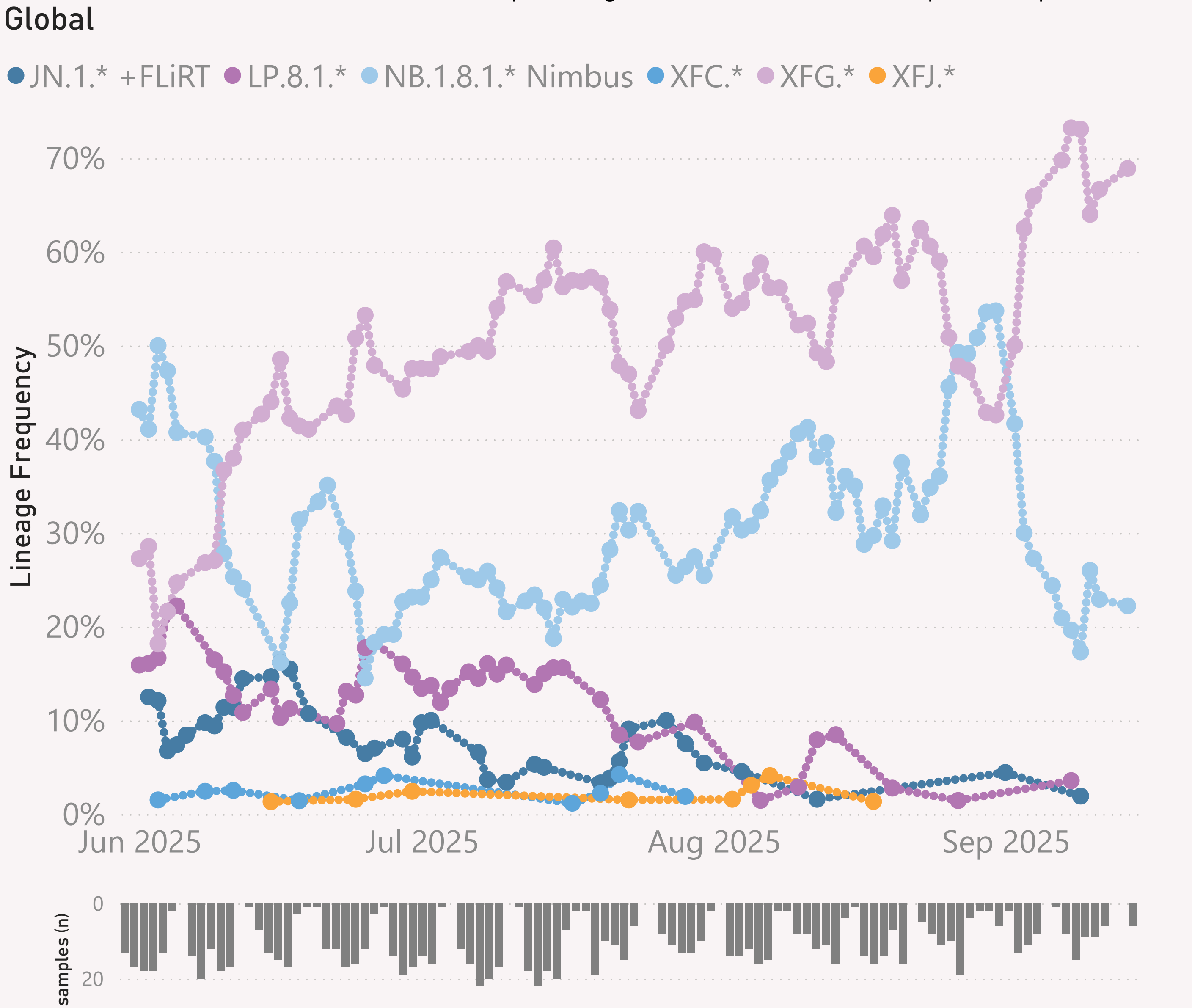
The hierarchy can be read from left to right, starting with the earliest/highest Lineages being broken down into more detailed child Lineages.

The vertical height of each bar segment represents the relative volume of all the samples of that specific Lineage, as well as all its descendants.

The full picture is typically quite busy, so insignificant Lineages (with few samples, or at the extreme top or bottom of the hierarchy) are not shown.

The Lineage classifications are provided by Nextclade.

n=1,026 sequenced genomes, from 1 June 2025 up to 14 September 2025





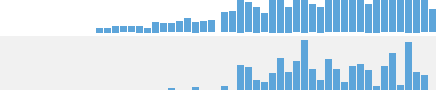

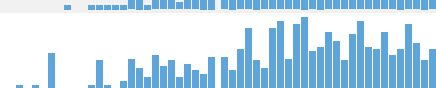







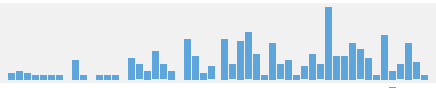













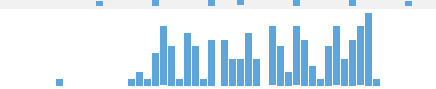











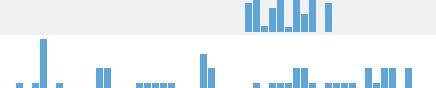

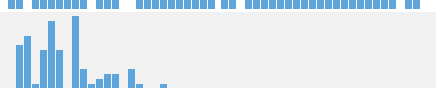
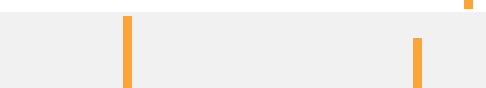
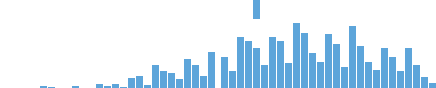

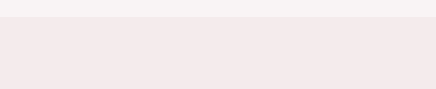
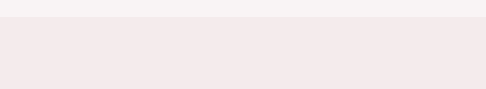
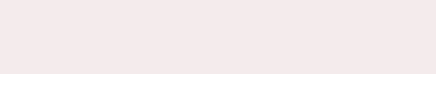
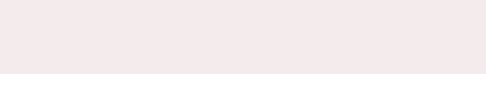

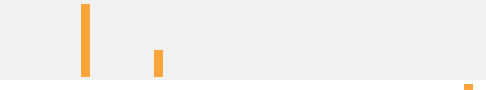


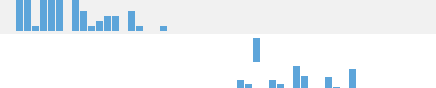

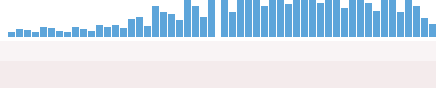



This page shows the frequency of the top 6 "L2" lineages, across recent months, for "International Traveller" samples.

This is probably a more randomised sample than the "Global" aggregate of all samples submitted to GISAID, as those are dominated by the US and Canada

These samples are mainly collected from arrivals into the US and Japan.

Data Submitted in the last 8 weeks

Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
<div>+ United States</div>	9,935	14/09/2025		24/09/2025	
<div>+ Spain</div>	3,960	14/09/2025		24/09/2025	
<div>+ Canada</div>	3,083	14/09/2025		24/09/2025	
<div>+ United Kingdom</div>	2,940	14/09/2025		24/09/2025	
<div>+ Australia</div>	1,657	14/09/2025		24/09/2025	
<div>+ France</div>	1,299	14/09/2025		24/09/2025	
<div>+ China</div>	1,279	14/09/2025		24/09/2025	
<div>+ South Korea</div>	1,244	11/09/2025		24/09/2025	
<div>+ Brazil</div>	1,109	14/09/2025		24/09/2025	
<div>+ Japan</div>	848	13/09/2025		24/09/2025	
<div>+ Netherlands</div>	586	14/09/2025		24/09/2025	
<div>+ Ireland</div>	567	14/09/2025		24/09/2025	
<div>+ New Zealand</div>	520	14/09/2025		24/09/2025	
<div>+ Russia</div>	454	06/09/2025		24/09/2025	
<div>+ Ukraine</div>	431	14/09/2025		24/09/2025	
<div>+ Italy</div>	424	14/09/2025		24/09/2025	
<div>+ Germany</div>	418	14/09/2025		24/09/2025	
<div>+ Denmark</div>	401	08/09/2025		24/09/2025	
<div>+ Luxembourg</div>	363	31/08/2025		22/09/2025	
<div>+ Puerto Rico</div>	358	14/09/2025		24/09/2025	
<div>+ Costa Rica</div>	275	04/09/2025		24/09/2025	
<div>+ India</div>	266	16/07/2025		24/09/2025	
<div>+ Portugal</div>	243	03/08/2025		29/08/2025	
<div>+ Sweden</div>	240	13/09/2025		24/09/2025	
<div>+ Malaysia</div>	218	11/09/2025		24/09/2025	
<div>+ Singapore</div>	203	20/08/2025		25/08/2025	
<div>+ Finland</div>	180	11/09/2025		24/09/2025	
<div>+ Mexico</div>	158	10/07/2025		19/09/2025	
<div>+ Total</div>	35,220	14/09/2025		24/09/2025	

This page shows the volume and currency/timeliness of the genomic sequencing data shared via GISAID, over the last 8 weeks, for the countries sharing the most samples.

Each sample shared comes with a Collection date - when the PCR test for that sample was collected. The GISAID system also records a Submission date for each sample, which is typically the date that sample was uploaded.

The latest date of each type is shown, along with "sparkline"-style mini charts to give a flavour for the spread of recent data by Collection date and by Submission date.