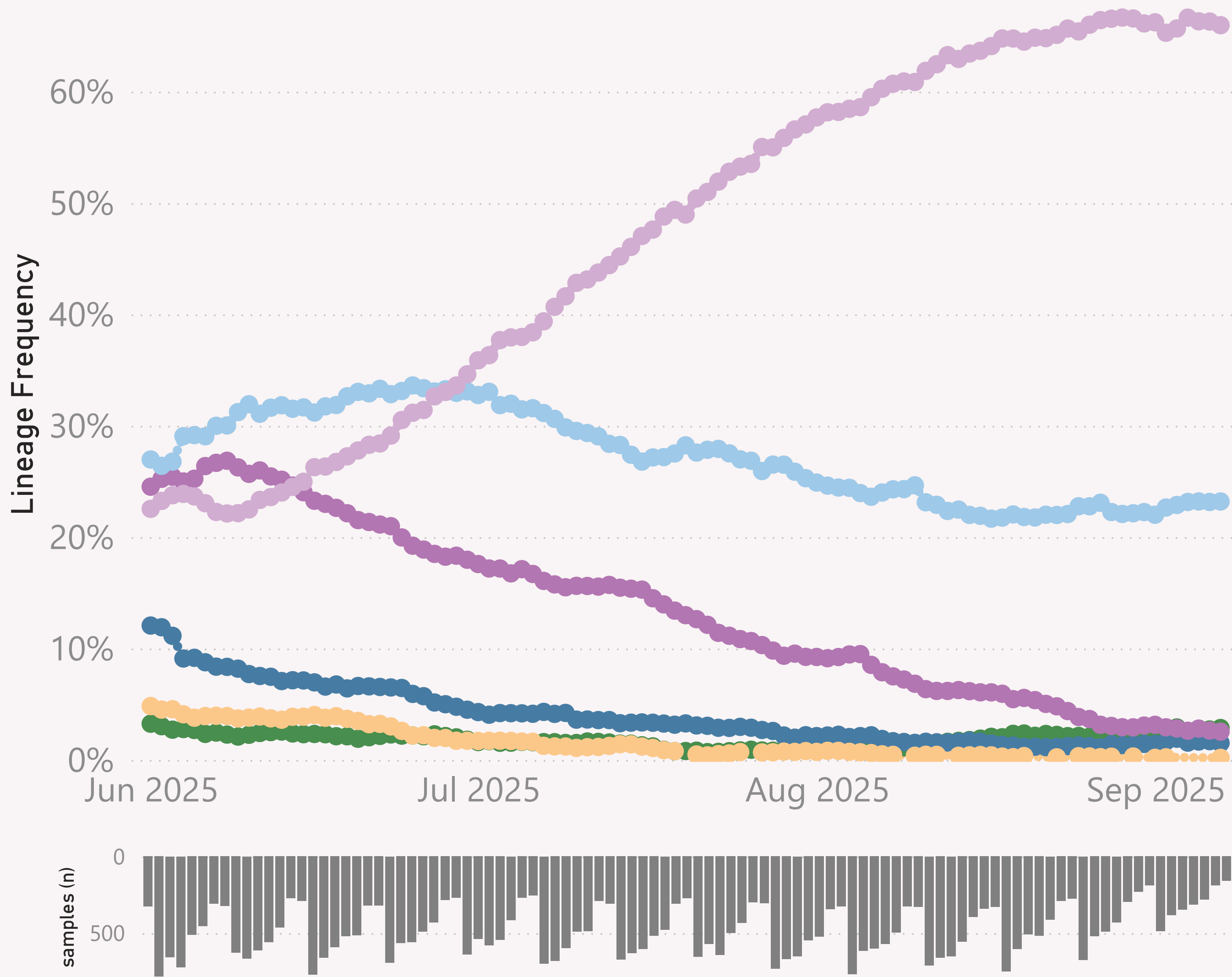n=47,817 sequenced genomes, from 1 June 2025 up to 7 September 2025

Global

- ●JN.1.* +DeFLuQE ●JN.1.* +FLiRT ●LP.8.1.* ●NB.1.8.1.* Nimbus ●XEC.* ●XFG.*

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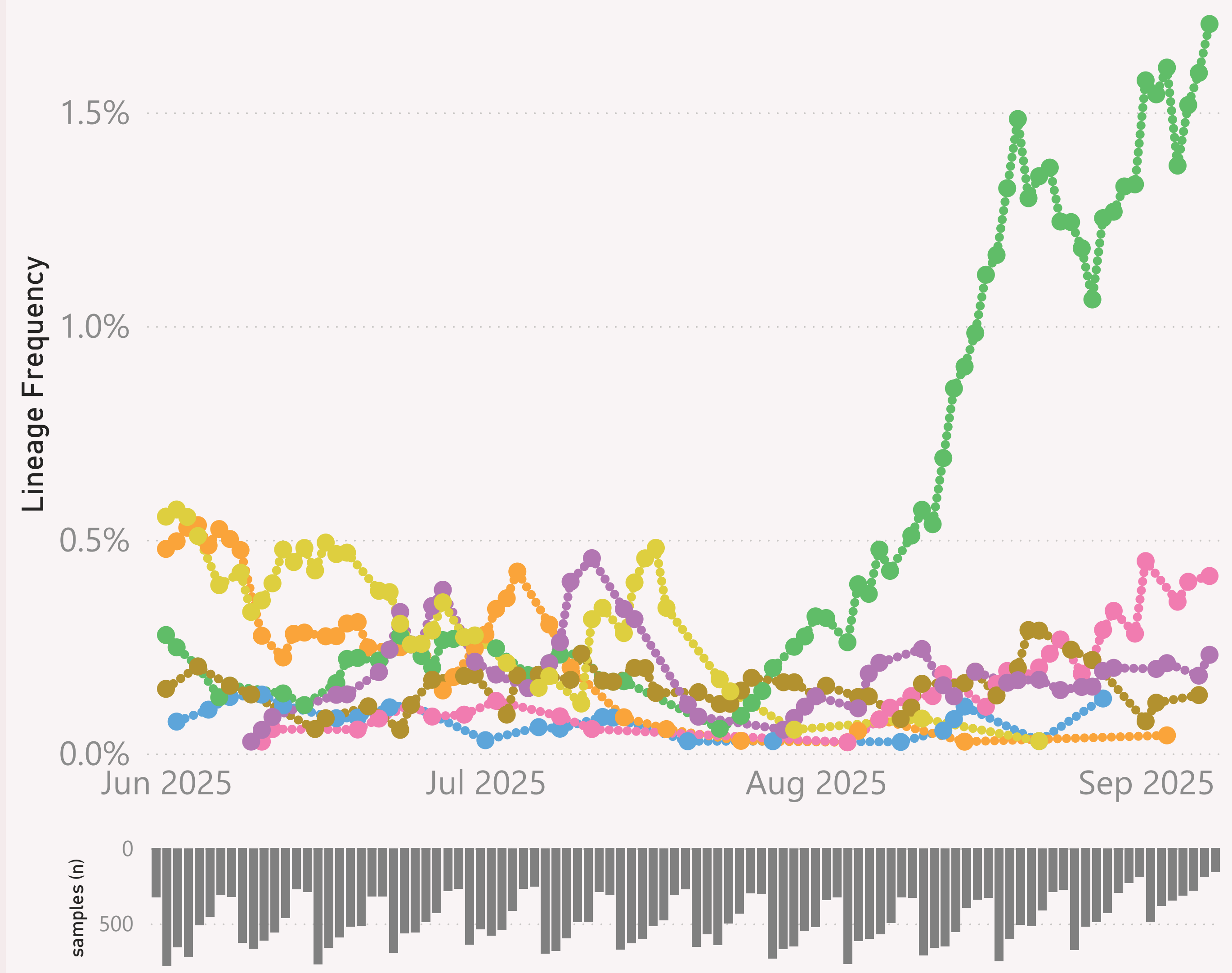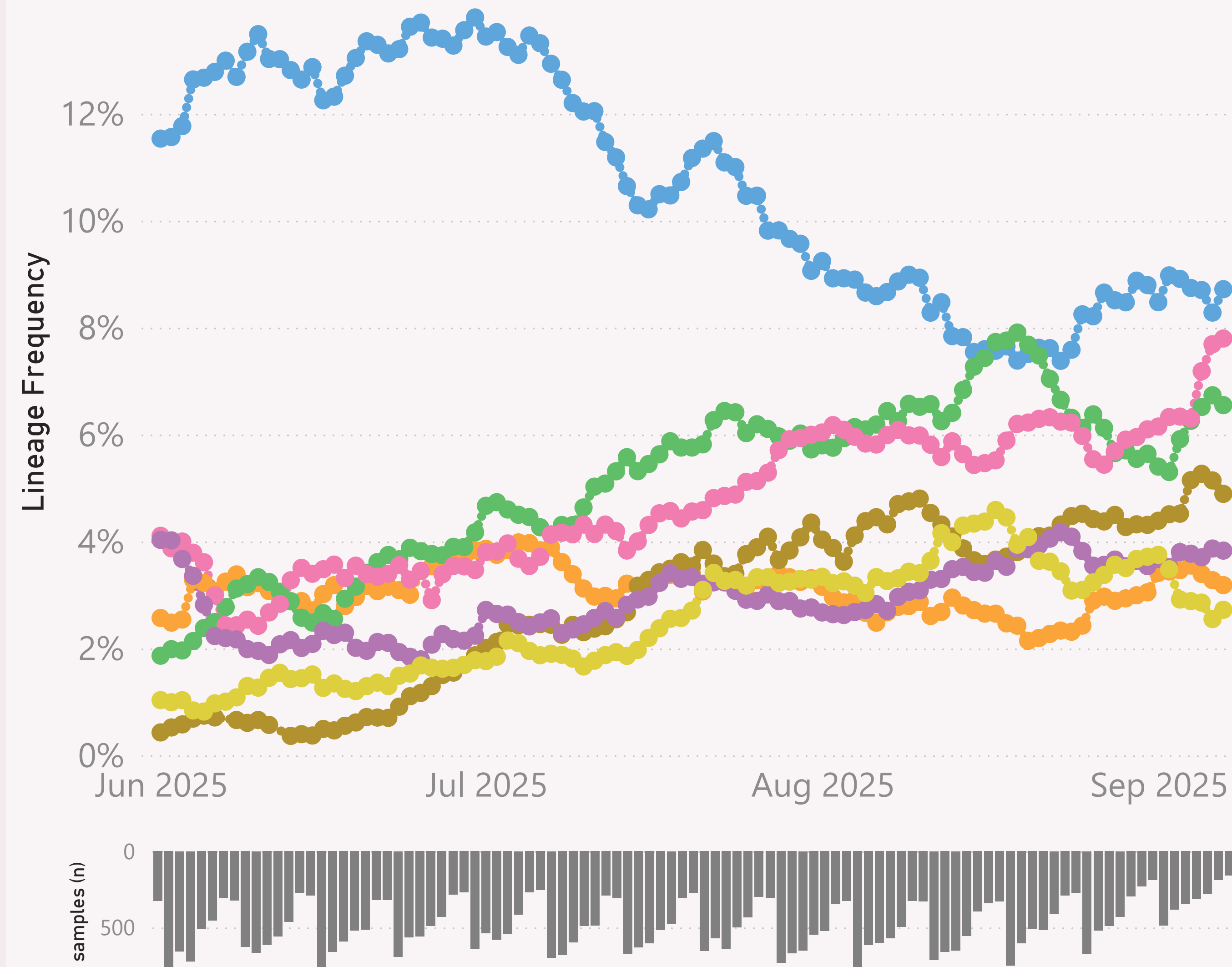
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

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

n=47,817 sequenced genomes, from 1 June 2025 up to 7 September 2025

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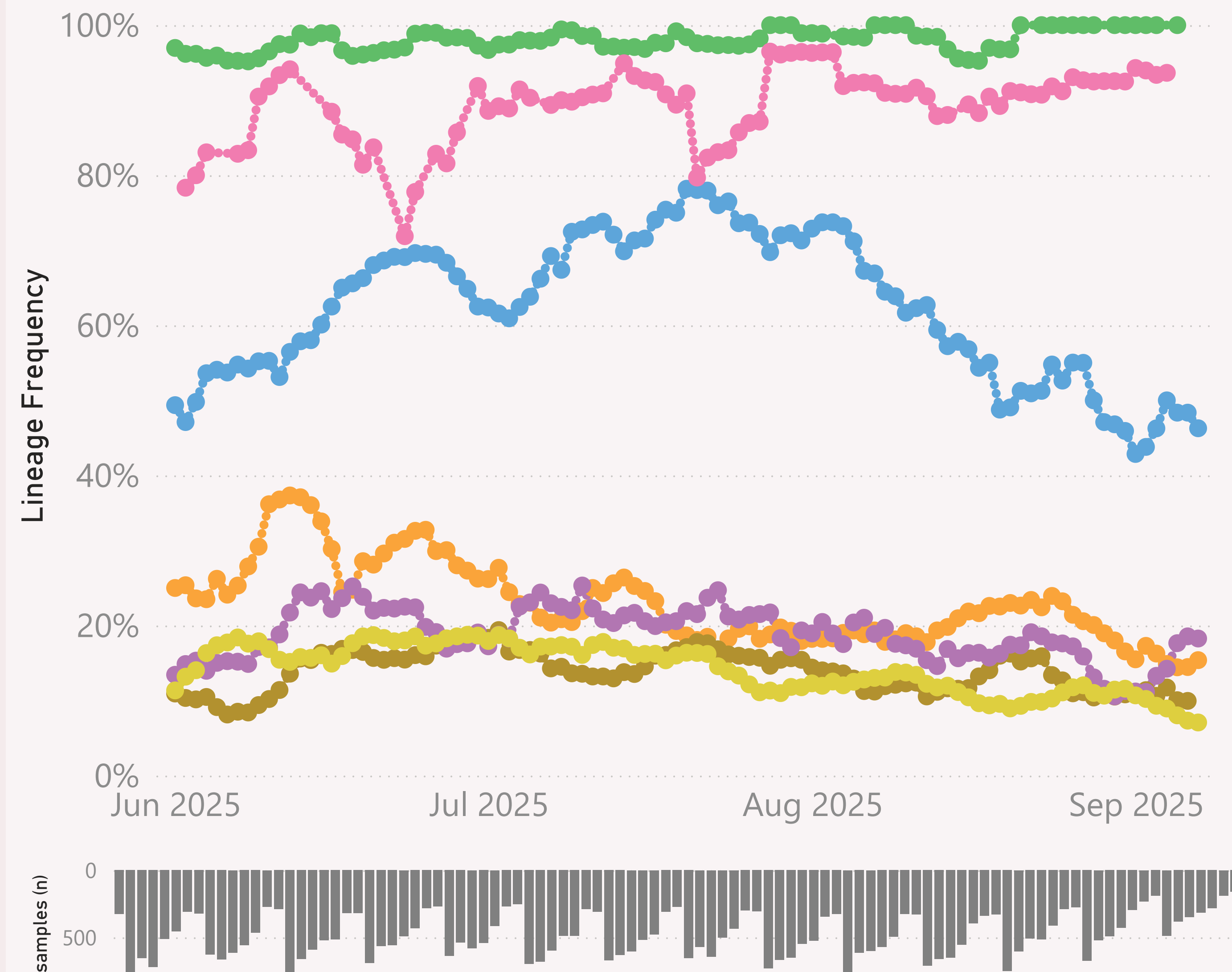
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

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

n=47,817 sequenced genomes, from 1 June 2025 up to 7 September 2025

Global

● NB.1.8.1　● PQ.2　● XFG.2　● XFG.3　● XFG.3.4.1　● XFG.4.1　● XFG.5.1

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.

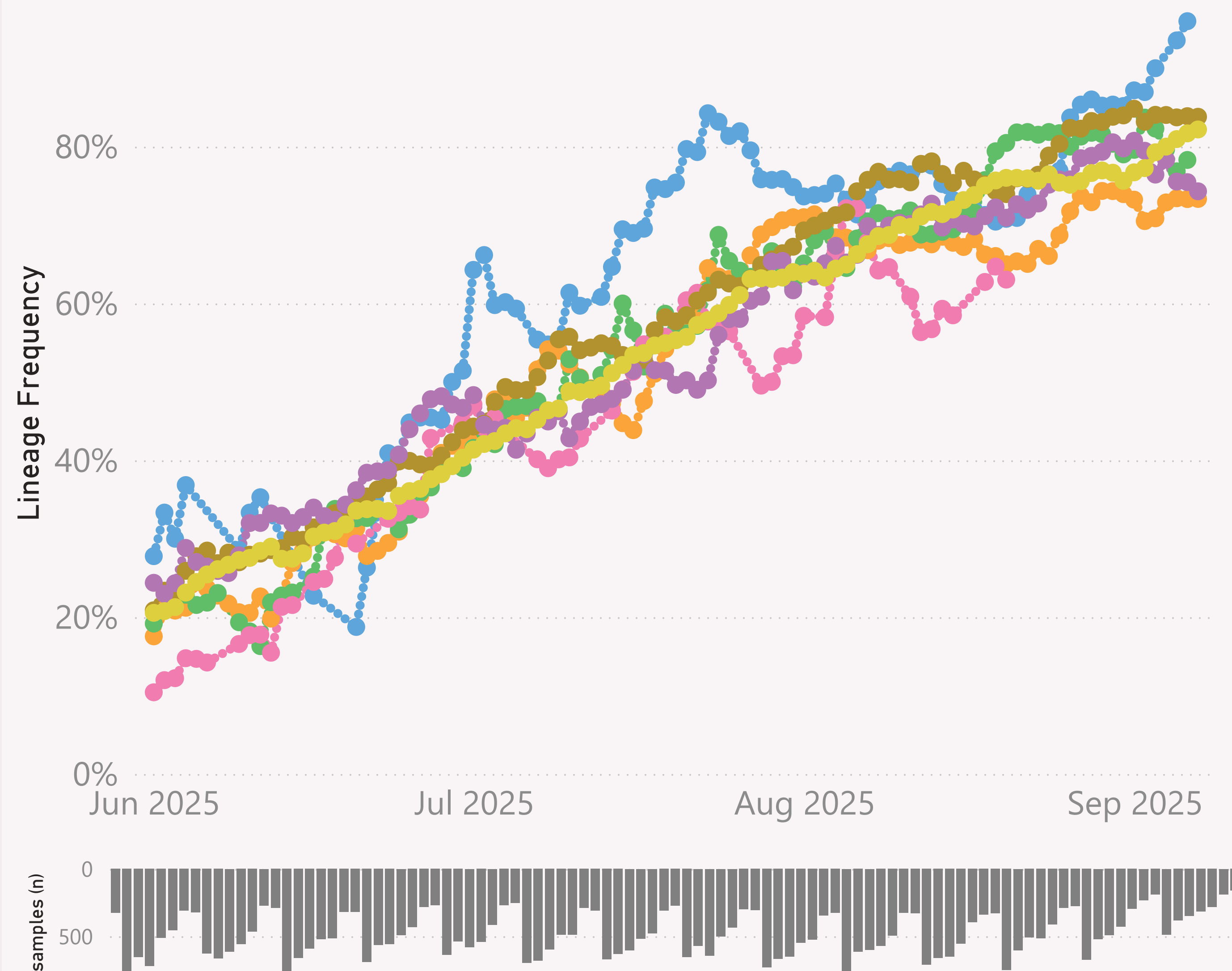The frequency shown at each point is based on the 7-day rolling average across all lineages.

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=47,817 sequenced genomes, from 1 June 2025 up to 7 September 2025

NB.1.8.1.* Nimbus

● Australia ● Canada ● China ● South Korea ● Spain ● United Kingd... ● United St...

This page shows the frequency of a selected "Lineage L2" group of interest, for the 7 countries reporting the most samples over recent months.
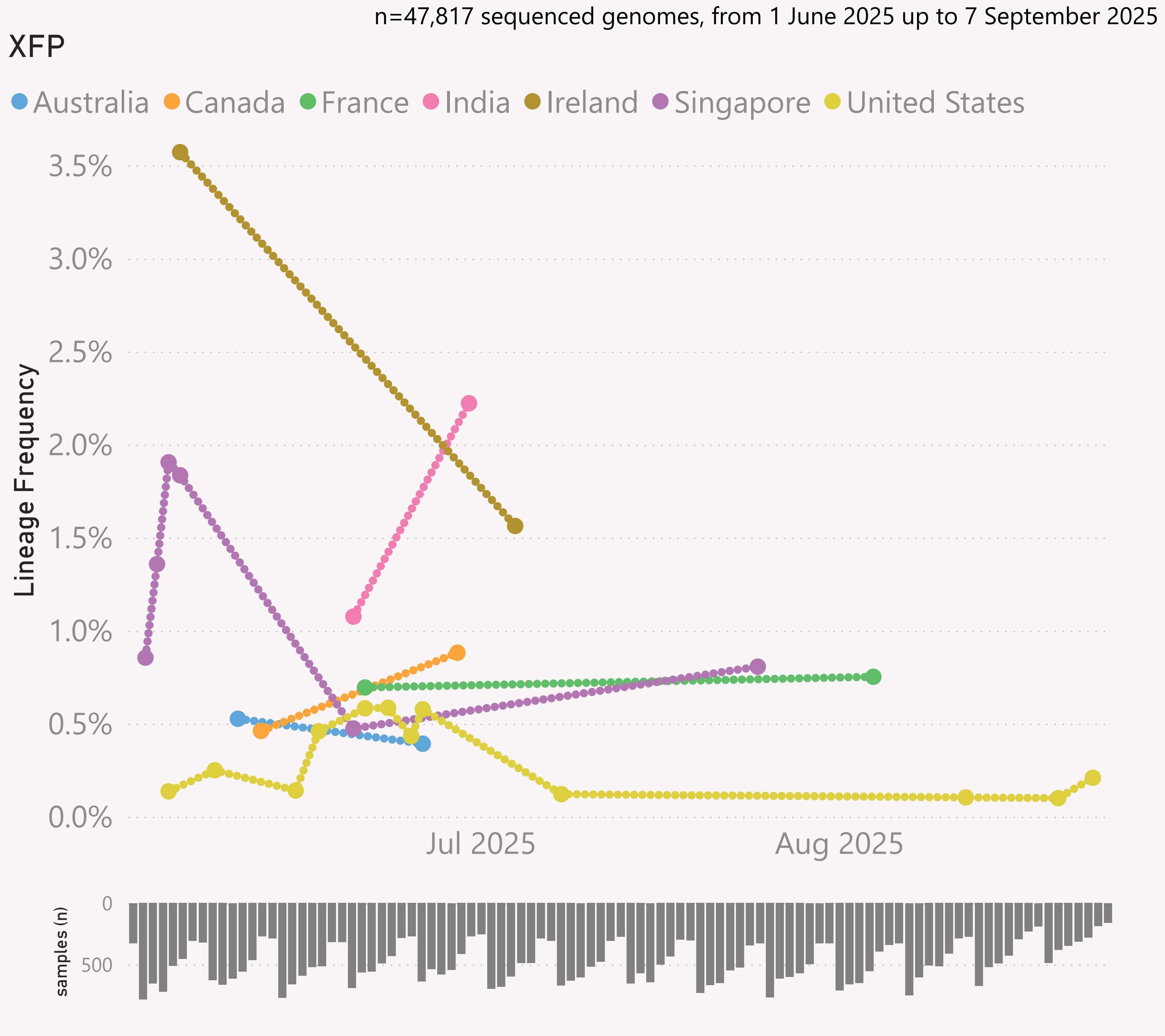
The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "JN.1.* +FLiRT" group includes the descendants of JN.1.* with the mutations: F456L & R346T.

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=47,817 sequenced genomes, from 1 June 2025 up to 7 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=47,817 sequenced genomes, from 1 June 2025 up to 7 September 2025

XFP

- Australia
- Canada
- France
- India
- Ireland
- Singapore
- United States

Date			Continent, Country, Location	
01/01/2025	31/12/2025		All	

Lineage L2, Lineage (nextclade)

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

Host

Human

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=32,587 sequenced genomes, from 1 July 2025 up to 7 September 2025

Global – XGA vs XFG.*

● log (1st Lineage / 2nd Lineage)　● trend

growth of 0.6% per day
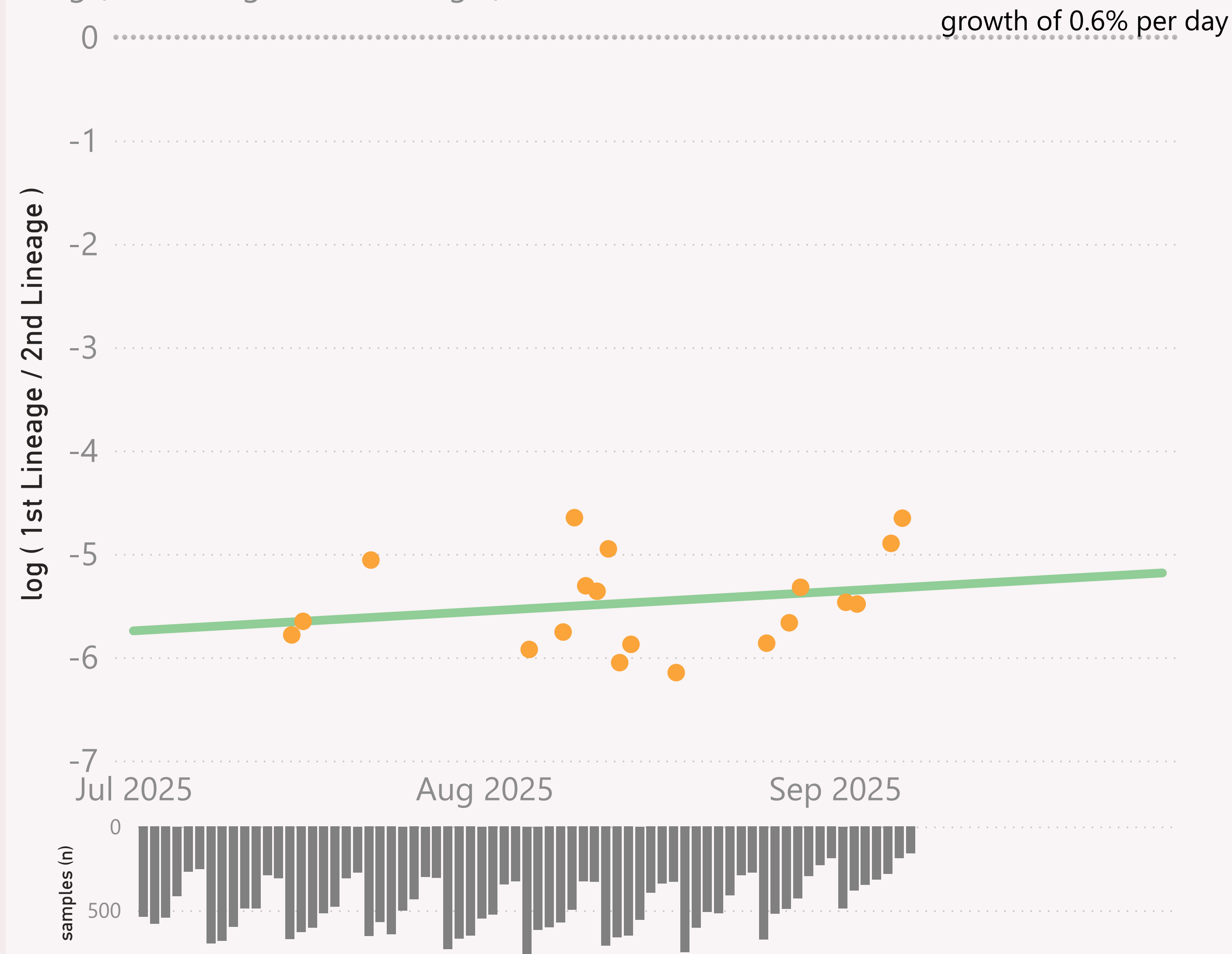
This page compares the relative frequency of 2 selected "Lineage L2" groups, over recent months. A challenging Lineage L2 is selected first, and compared to the incumbent.

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=32,587 sequenced genomes, from 1 July 2025 up to 7 September 2025

Global - PY.1.1.1 vs XFG.3

● log (1st Lineage / 2nd Lineage)   ● trend

decline of -0.2% per day
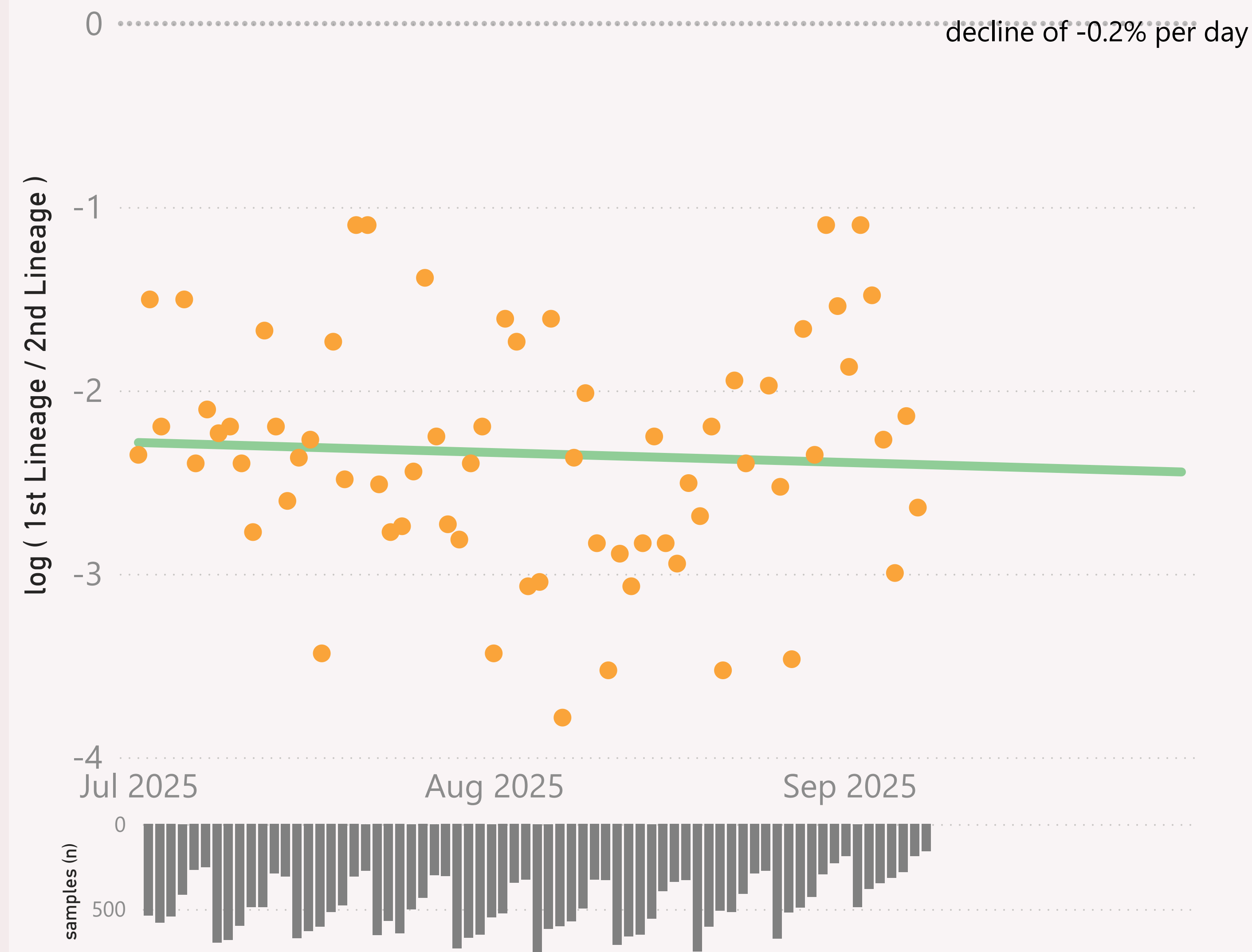
This page compares the relative frequency of 2 selected Lineages, over recent months. A challenging Lineage is selected first, and compared to the incumbent.

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=47,817 sequenced genomes, from 1 June 2025 up to 7 September 2025
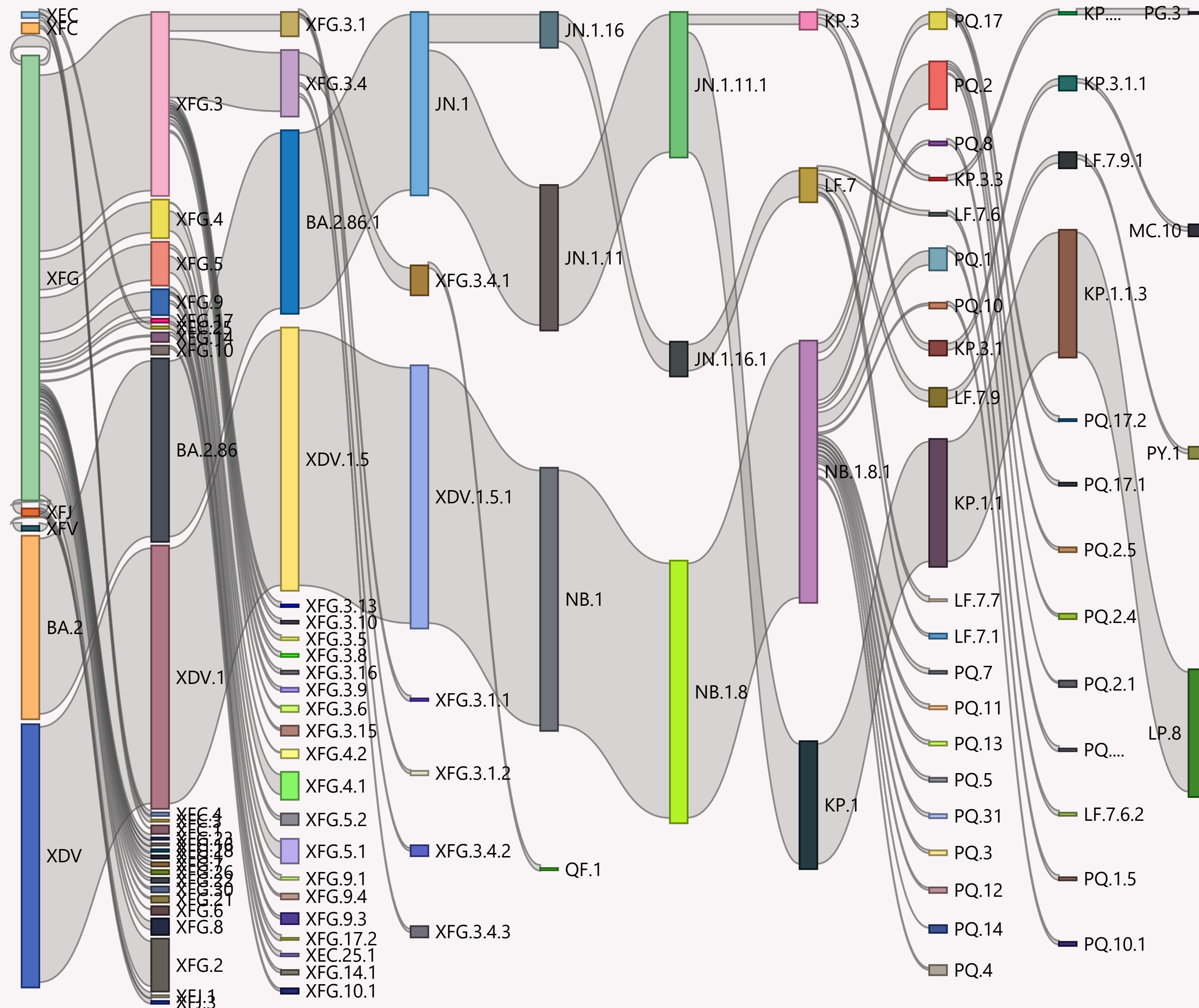
This page shows the hierarchy of the significant Lineages, over recent months.

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 it's 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=945 sequenced genomes, from 1 June 2025 up to 7 September 2025

Global

● JN.1.* +FLiRT ● LP.8.1.* ● NB.1.8.1.* Nimbus ● XEC.* ● XFC.* ● XFG.* ● XFJ.*
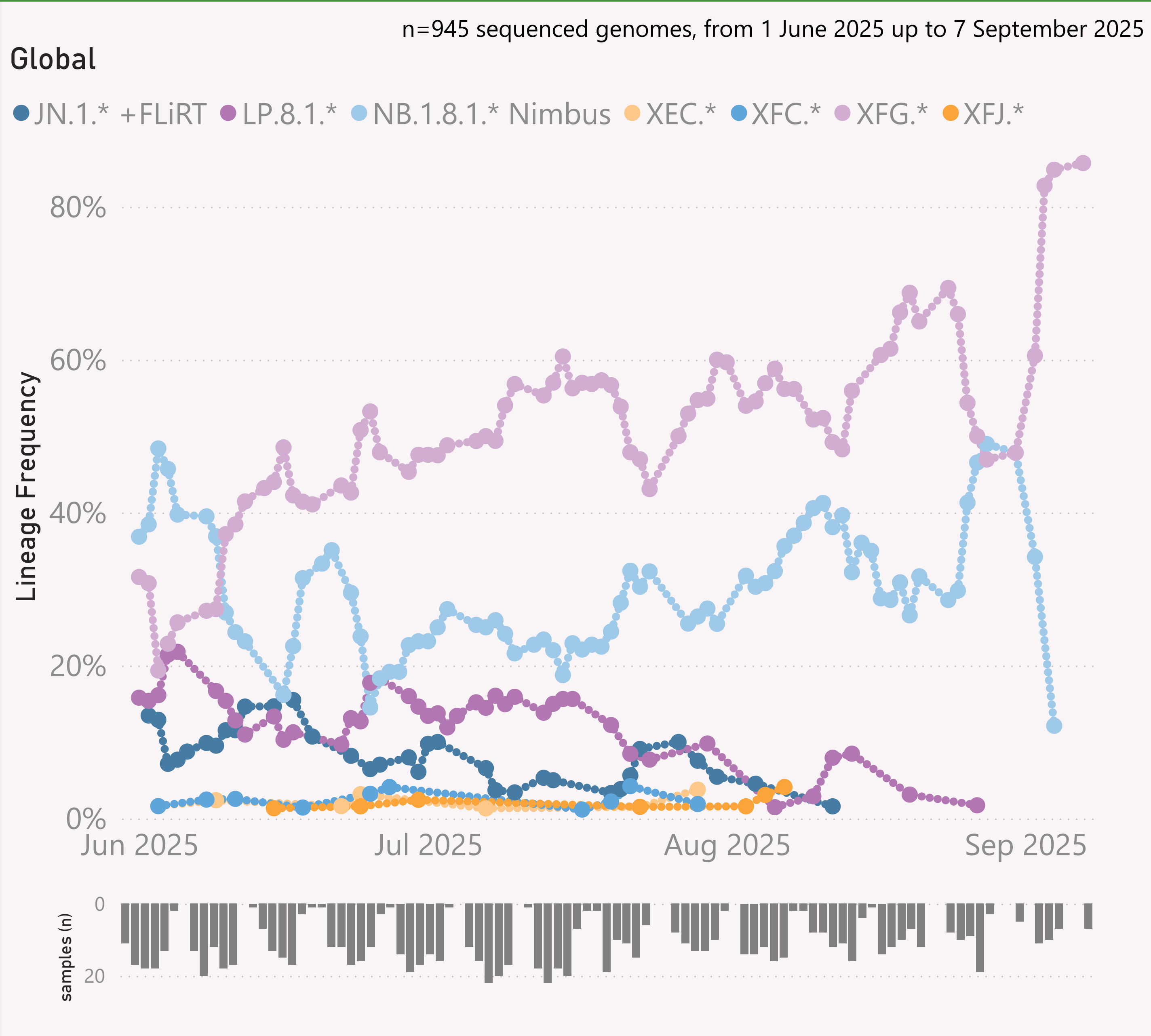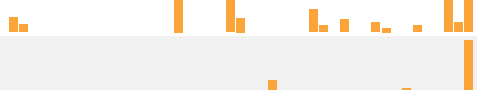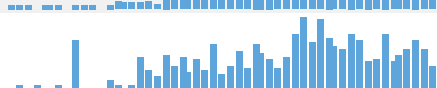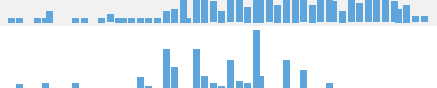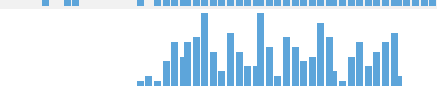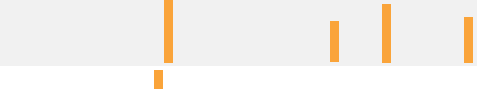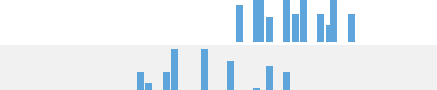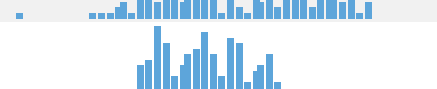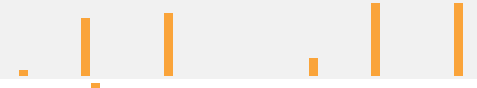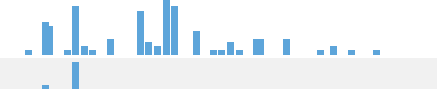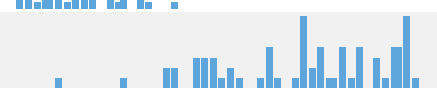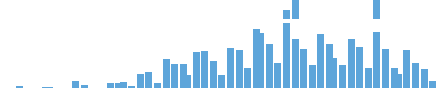
This page shows the frequency of the top 6 "L2" lineages, across recent months, for "International Traveller" samples.

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.

COVID-19 Genomic Sequencing analysis - Data Currency. Data from gisaid.org. Source files and info on github.

Last Update: 2025-09-26 22:42 (UTC)

Data Submitted in the last 8 weeks

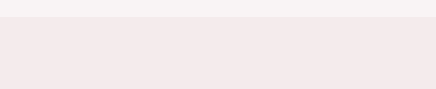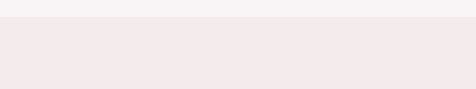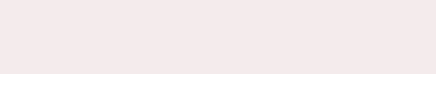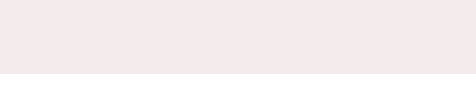| Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
⊞ United States	8,940	07/09/2025		17/09/2025	
⊞ Spain	3,970	07/09/2025		17/09/2025	
⊞ United Kingdom	2,772	07/09/2025		17/09/2025	
⊞ Canada	2,383	07/09/2025		17/09/2025	
⊞ Australia	1,299	07/09/2025		17/09/2025	
⊞ France	1,253	06/09/2025		17/09/2025	
⊞ South Korea	1,047	04/09/2025		17/09/2025	
⊞ Brazil	993	06/09/2025		17/09/2025	
⊞ China	743	07/09/2025		17/09/2025	
⊞ Japan	708	07/09/2025		17/09/2025	
⊞ Ireland	587	06/09/2025		17/09/2025	
⊞ New Zealand	528	07/09/2025		17/09/2025	
⊞ Netherlands	478	07/09/2025		17/09/2025	
⊞ Ukraine	426	05/09/2025		17/09/2025	
⊞ Russia	413	21/08/2025		17/09/2025	
⊞ Denmark	399	01/09/2025		17/09/2025	
⊞ Germany	387	02/09/2025		17/09/2025	
⊞ Italy	382	07/09/2025		17/09/2025	
⊞ Luxembourg	363	31/08/2025		17/09/2025	
⊞ Puerto Rico	328	06/09/2025		17/09/2025	
⊞ Singapore	312	20/08/2025		25/08/2025	
⊞ Costa Rica	307	26/08/2025		17/09/2025	
⊞ Portugal	243	03/08/2025		29/08/2025	
⊞ Sweden	211	04/09/2025		16/09/2025	
⊞ Malaysia	210	25/08/2025		17/09/2025	
⊞ India	204	07/07/2025		17/09/2025	
⊞ Mexico	158	10/07/2025		17/09/2025	
⊞ Romania	119	03/09/2025		17/09/2025	
Total	**31,519**	**07/09/2025**		**17/09/2025**	

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.