n=7,494 sequenced genomes, up to 17 April 2025

Europe (excl UK)

● BA.2.86.* ● JN.1.* +DeFLuQE ● JN.1.* +FLiRT ● LP.8.1.* ● XEC.* ● XEK.*

Lineage Frequency

50%
40%
30%
20%
10%
0%

Jan 2025   Feb 2025   Mar 2025   Apr 2025

samples (n)
0
200

This page shows the frequency of the top 6 "L2" lineages, across recent months.
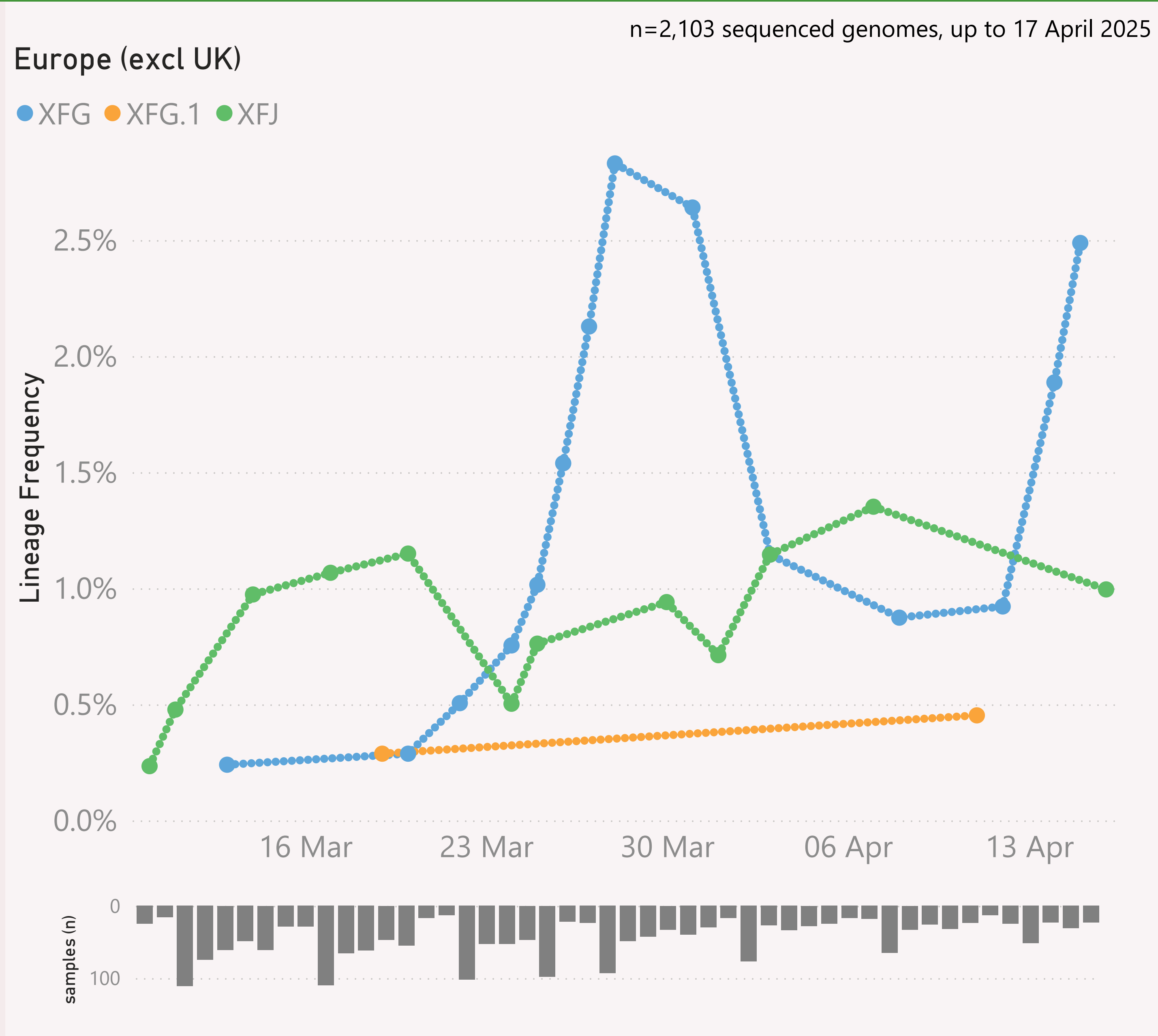
The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "BA.2.86.*" group includes BA.2.86 and all it's descendants, e.g. the JN.* lineages.

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=2,103 sequenced genomes, up to 17 April 2025

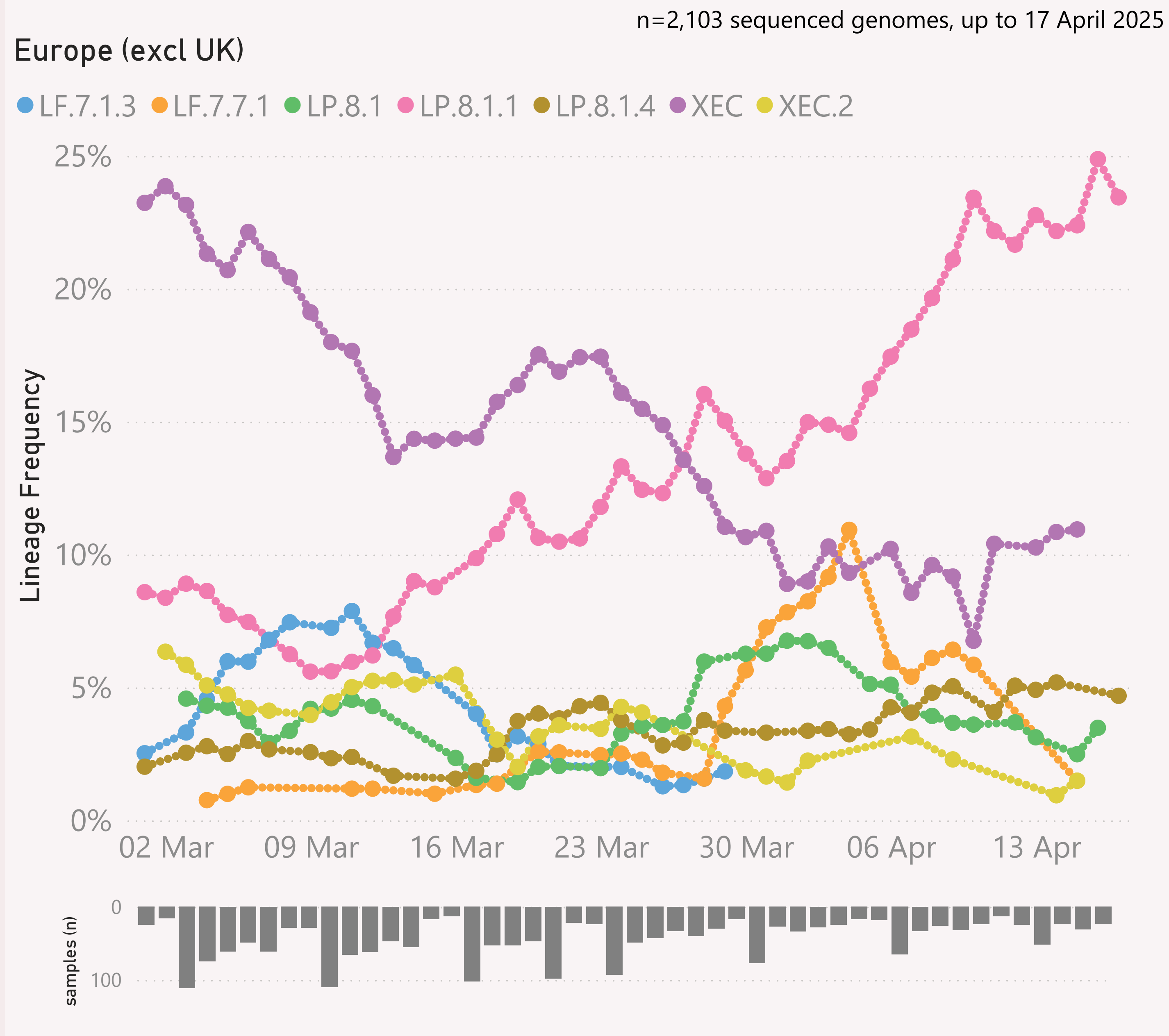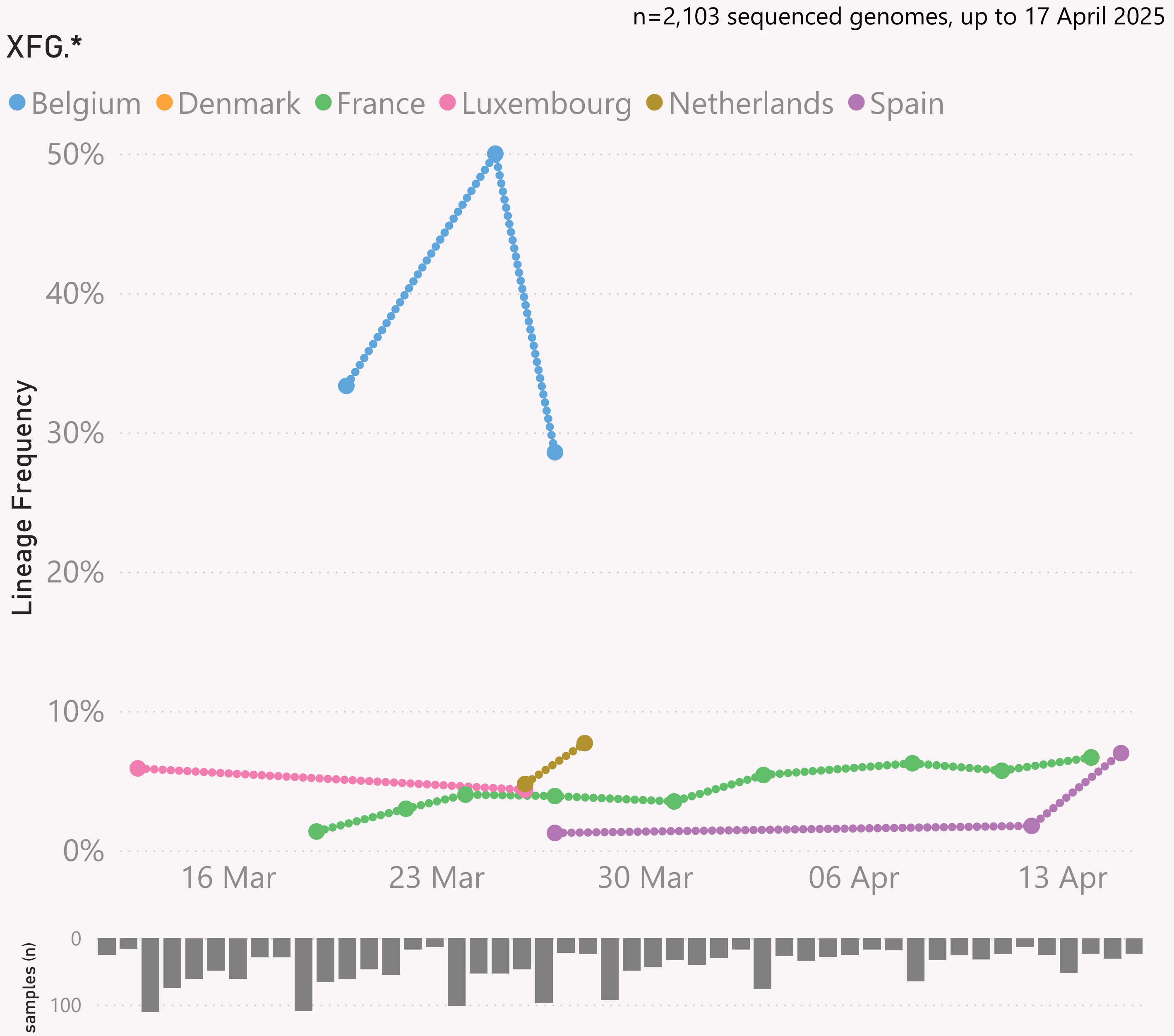Europe (excl UK)

● XFG ● XFG.1 ● XFJ

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

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=2,103 sequenced genomes, up to 17 April 2025

Europe (excl UK)

● LF.7.1.3   ● LF.7.7.1   ● LP.8.1   ● LP.8.1.1   ● LP.8.1.4   ● XEC   ● XEC.2

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.
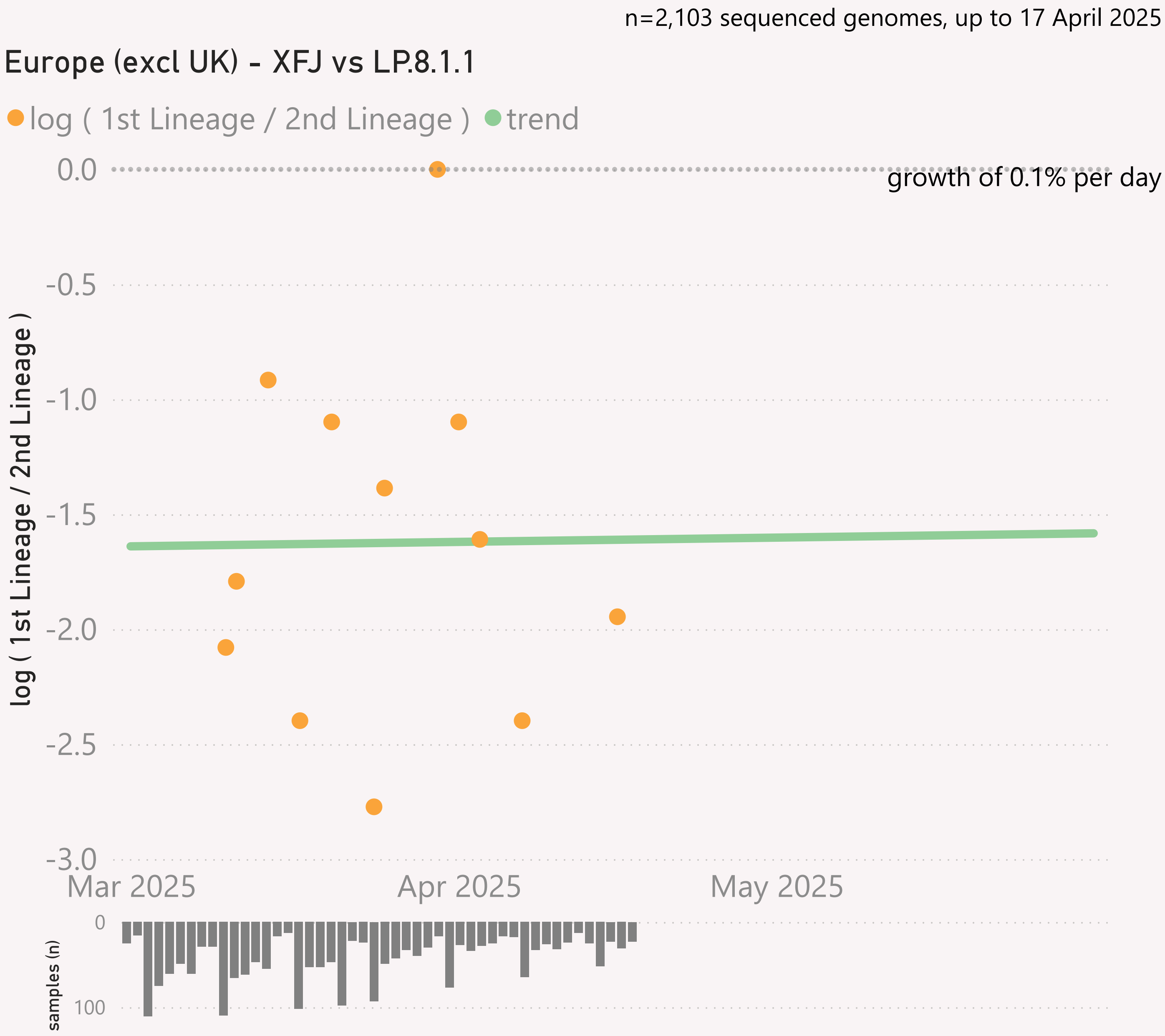
n=2,103 sequenced genomes, up to 17 April 2025

XFG.*

● Belgium ● Denmark ● France ● Luxembourg ● Netherlands ● Spain

Date	
01/03/2025	31/12/2025

Host

Human

Continent, Country, Location

Multiple selections

Lineage L2

XFG.*

Samples Sequenced (gisaid)

21

Country	Location	Addi...	Collection date	Lineage L2	Lineage (nextcla
Spain	Andalusia		15/04/2025	XFG.*	XFG
Denmark			14/04/2025	XFG.*	XFG
France	Auvergne-Rho...		14/04/2025	XFG.*	XFG
Spain	Basque Country		12/04/2025	XFG.*	XFG
France	Auvergne-Rho...		11/04/2025	XFG.*	XFG.1
France	Auvergne-Rho...		08/04/2025	XFG.*	XFG
France	Auvergne-Rho...		03/04/2025	XFG.*	XFG
France	Auvergne-Rho...		31/03/2025	XFG.*	XFG
Netherlands	Noord-Holland		28/03/2025	XFG.*	XFG
France	Auvergne-Rho...		27/03/2025	XFG.*	XFG
Spain	Catalunya		27/03/2025	XFG.*	XFG
Belgium	Flanders		27/03/2025	XFG.*	XFG
Luxembourg			26/03/2025	XFG.*	XFG
Netherlands	Zuid-Holland		26/03/2025	XFG.*	XFG
Belgium	Wallonie		25/03/2025	XFG.*	XFG
France	Auvergne-Rho...		24/03/2025	XFG.*	XFG
France	Ile-de-France		22/03/2025	XFG.*	XFG
Belgium	Bruxelles		20/03/2025	XFG.*	XFG
France	Grand Est		19/03/2025	XFG.*	XFG.1
Luxembourg			13/03/2025	XFG.*	XFG
Total					

n=2,103 sequenced genomes, up to 17 April 2025

XFJ

- France
- Germany
- Ireland
- Luxembourg
- Spain

Lineage Frequency

8%

6%

4%

2%

0%

16 Mar   23 Mar   30 Mar   06 Apr   13 Apr
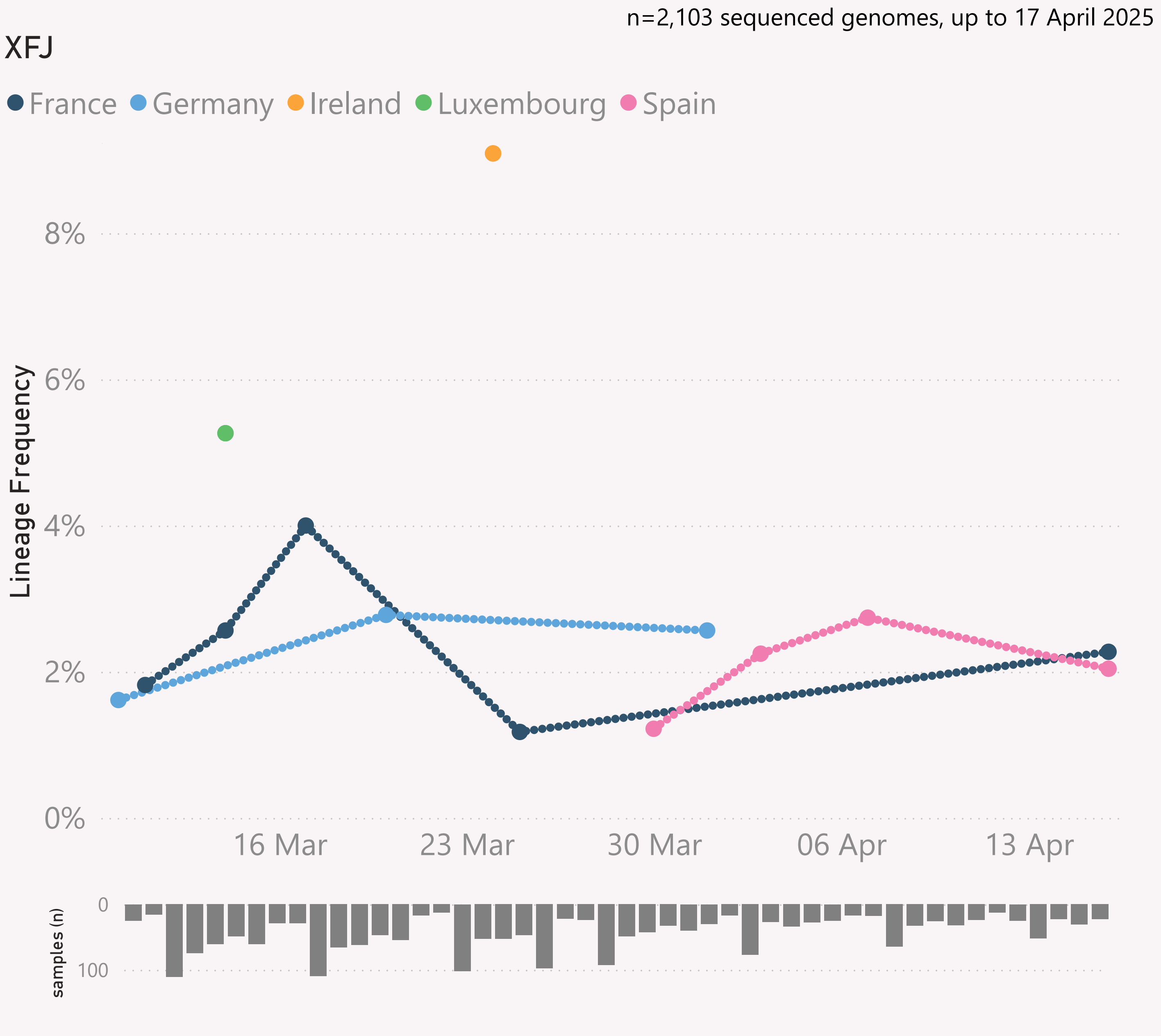
samples (n)
0
100

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

The Lineage classifications are provided by Nextclade.

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=2,103 sequenced genomes, up to 17 April 2025

Europe (excl UK) – XFG.* vs LP.8.1.*

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

growth of 2.4% per day
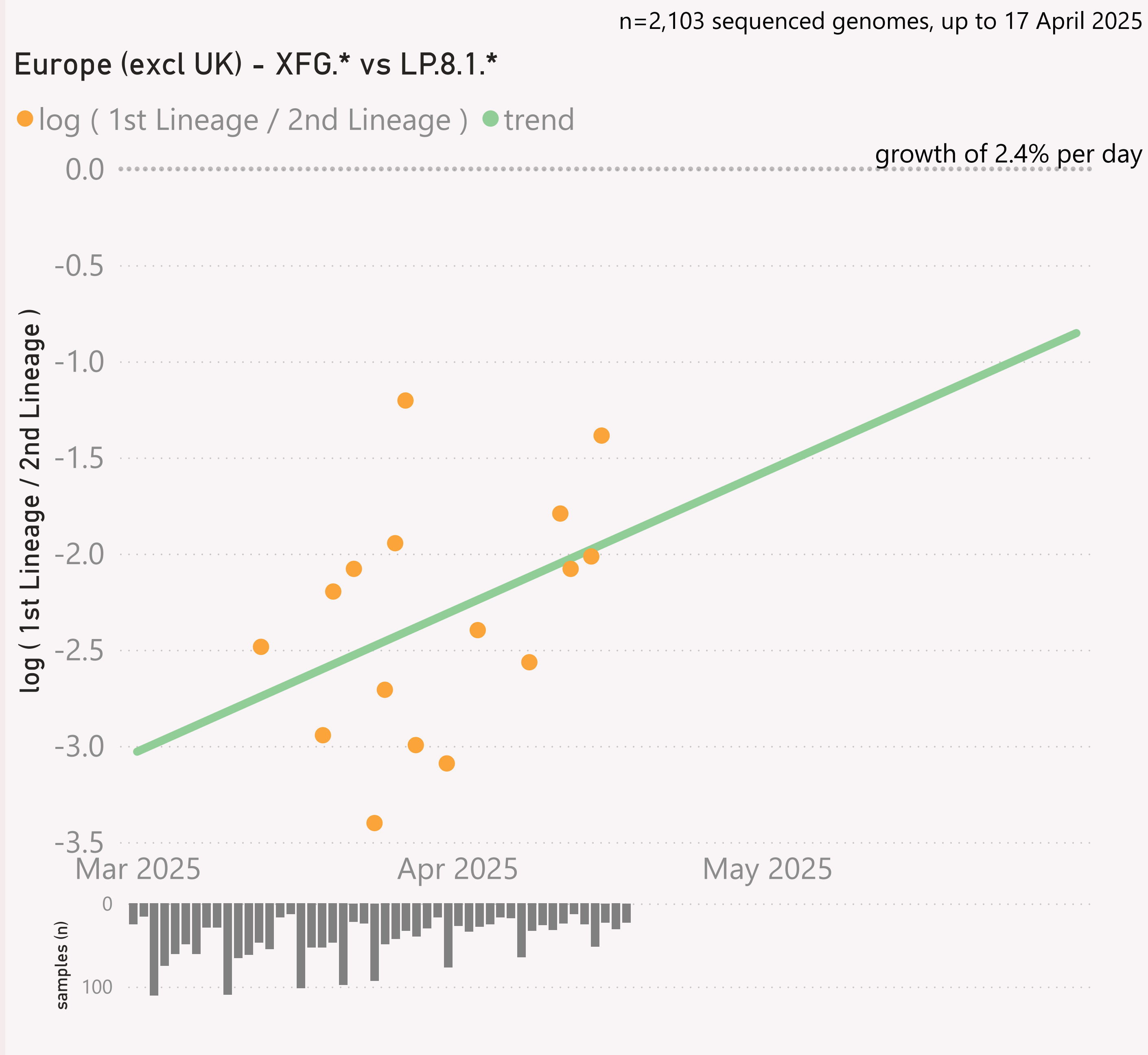
This page compares the relative frequency of 2 selected "Lineage L2" groups, over recent months. A challenging Lineage L2 is selected first, and compared to the incumbent.

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=2,103 sequenced genomes, up to 17 April 2025

Europe (excl UK) – XFJ vs LP.8.1.1

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

growth of 0.1% per day

y-axis: log (1st Lineage / 2nd Lineage)
y-axis values: 0.0, -0.5, -1.0, -1.5, -2.0, -2.5, -3.0

x-axis: Mar 2025, Apr 2025, May 2025

samples (n): 0, 100

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=2,103 sequenced genomes, up to 17 April 2025

Europe (excl UK)
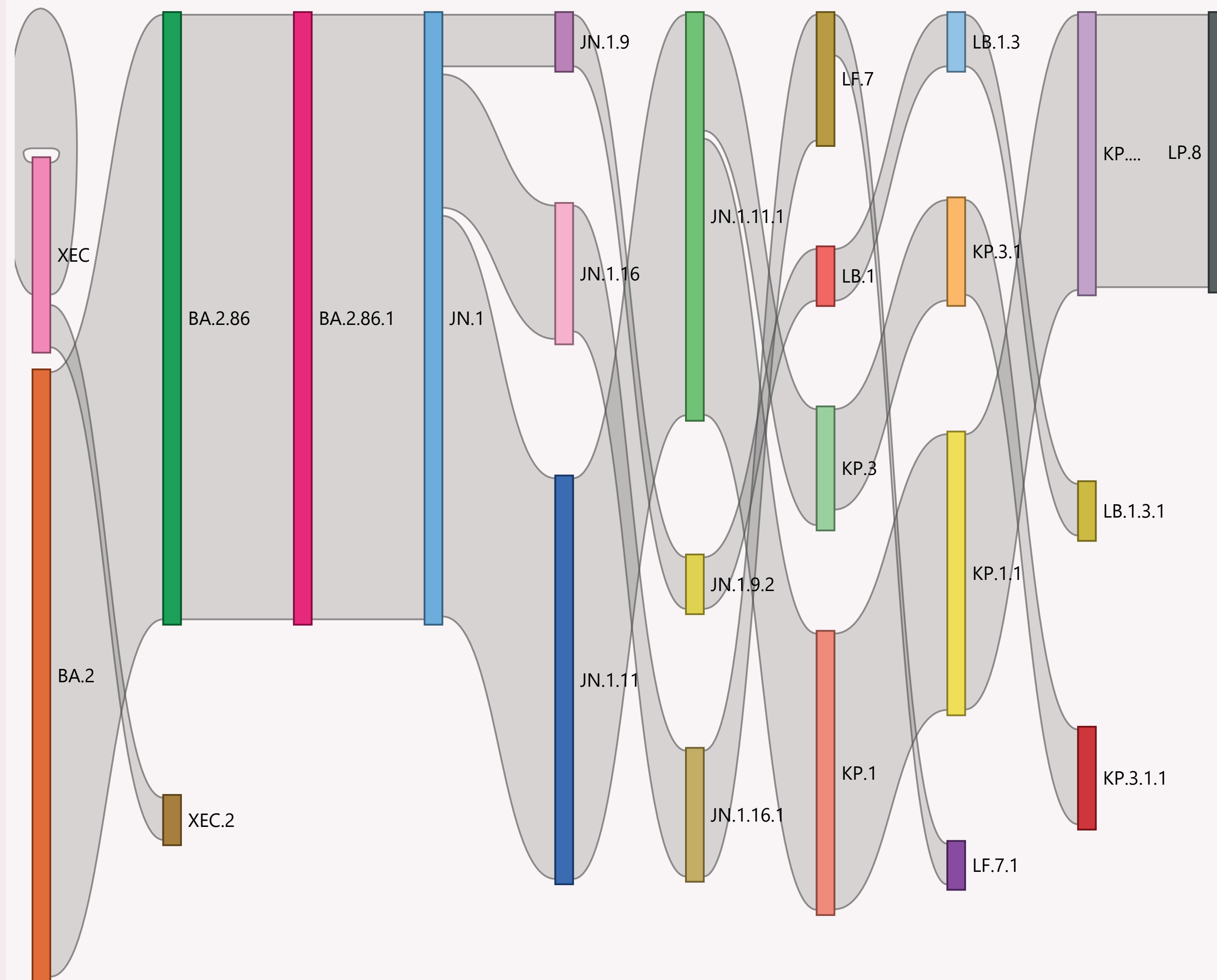
This page shows the hierarchy of the significant Lineages, over recent months.

The hierarchy can be read from left to right, starting with the earliest/highest Lineages being broken down into more detailed child Lineages.
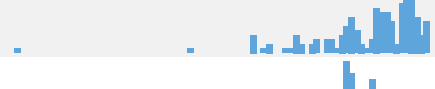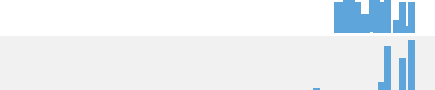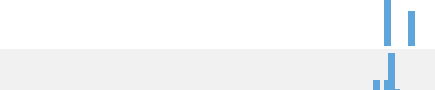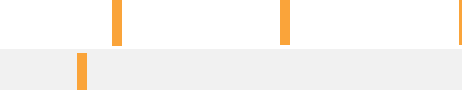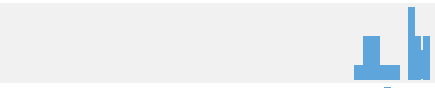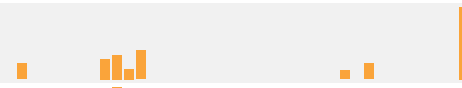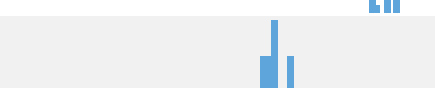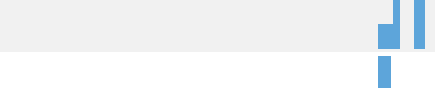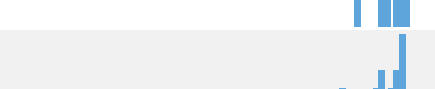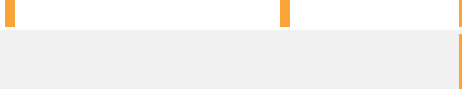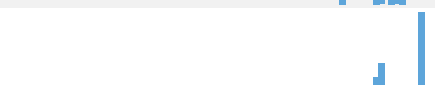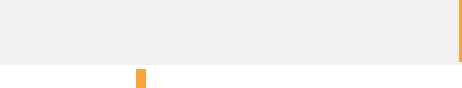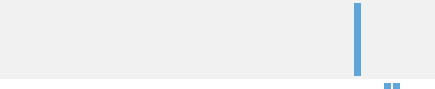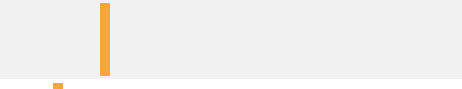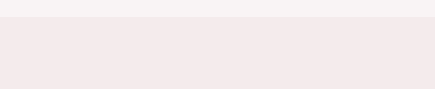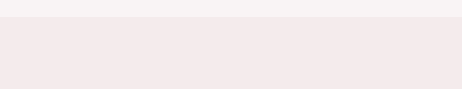
The vertical height of each bar segment represents the relative volume of all the samples of that specific Lineage, as well as all it's descendants.

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.

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

Last Update: 2025-05-10 01:10 (UTC)

Data Submitted in the last 8 weeks

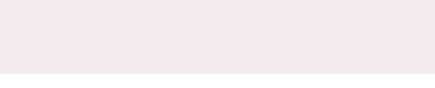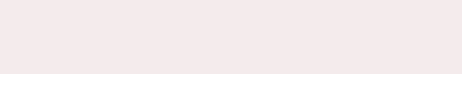| Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
⊞ France	1,252	17/04/2025		24/04/2025	
⊞ Spain	956	17/04/2025		24/04/2025	
⊞ Luxembourg	390	01/04/2025		16/04/2025	
⊞ Germany	329	15/04/2025		24/04/2025	
⊞ Greece	320	04/04/2025		15/04/2025	
⊞ Italy	240	10/04/2025		24/04/2025	
⊞ Denmark	226	14/04/2025		24/04/2025	
⊞ Russia	192	29/03/2025		24/04/2025	
⊞ Netherlands	181	17/04/2025		24/04/2025	
⊞ Ireland	136	17/04/2025		24/04/2025	
⊞ Finland	131	24/03/2025		09/04/2025	
⊞ Sweden	126	17/04/2025		24/04/2025	
⊞ Norway	123	21/03/2025		04/04/2025	
⊞ Czechia	74	09/12/2024		24/03/2025	
⊞ Croatia	69	21/03/2025		10/04/2025	
⊞ Portugal	54	14/04/2025		24/04/2025	
⊞ Belgium	48	05/04/2025		24/04/2025	
⊞ Slovenia	44	26/03/2025		24/04/2025	
⊞ Poland	41	16/04/2025		24/04/2025	
⊞ Lithuania	9	04/04/2025		24/04/2025	
⊞ Switzerland	7	28/02/2025		31/03/2025	
⊞ Serbia	6	09/01/2025		04/04/2025	
⊞ Slovakia	5	11/03/2025		22/04/2025	
⊞ Hungary	4	28/01/2025		25/03/2025	
⊞ Romania	2	14/03/2025		21/03/2025	
Total	**4,965**	**17/04/2025**		**24/04/2025**	

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.