n=8,456 sequenced genomes, up to 5 May 2025

Europe (excl UK)

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

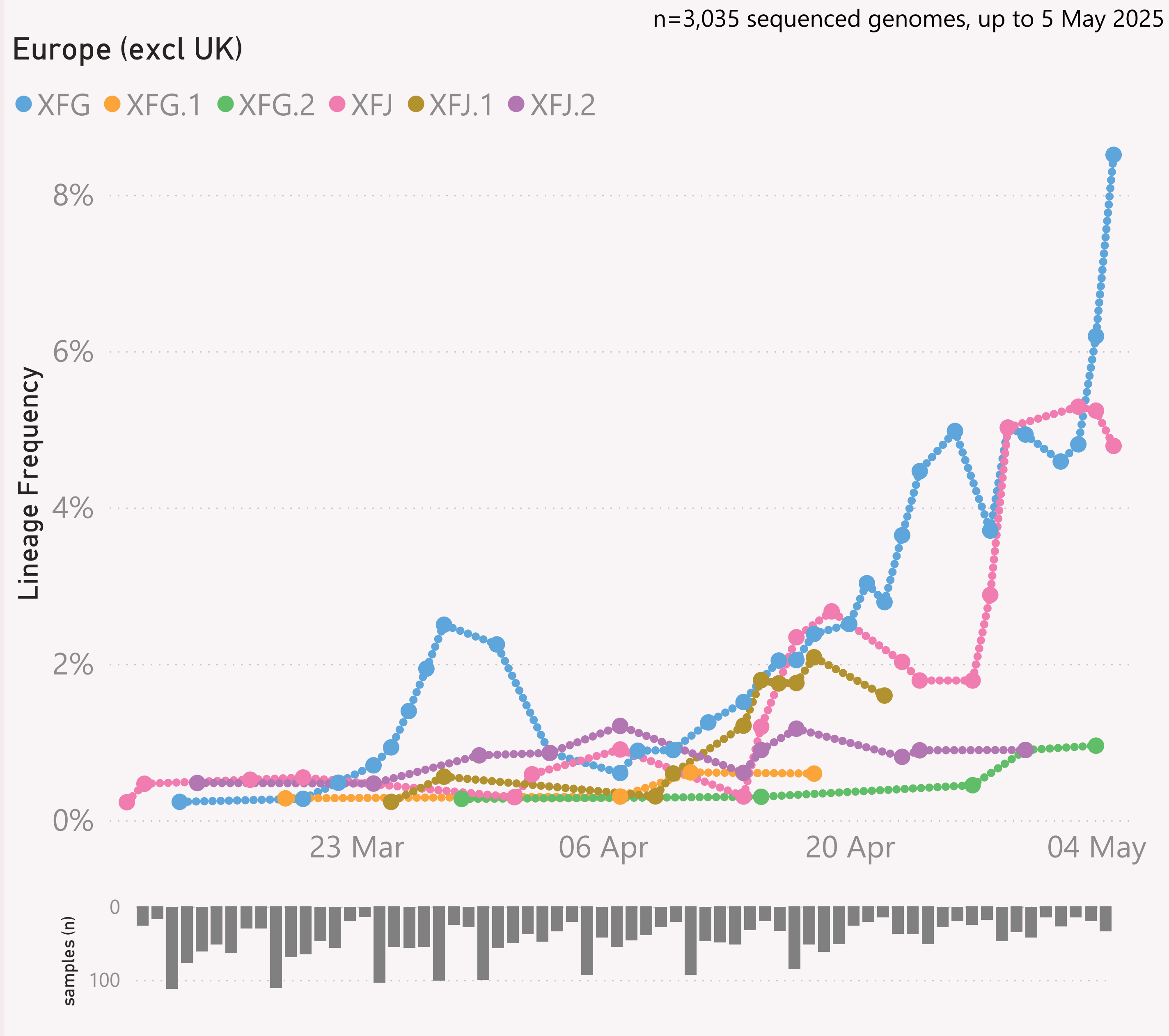This page shows the frequency of the top 6 "L2" lineages, across recent months.

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.

COVID-19 Genomic Sequencing analysis. Lineage Frequencies. Data from gisaid.org, with nextclade lineages. Source files and more info on github.

Last Update: 2025-05-24 01:14 (UTC)

n=3,035 sequenced genomes, up to 5 May 2025

Europe (excl UK)

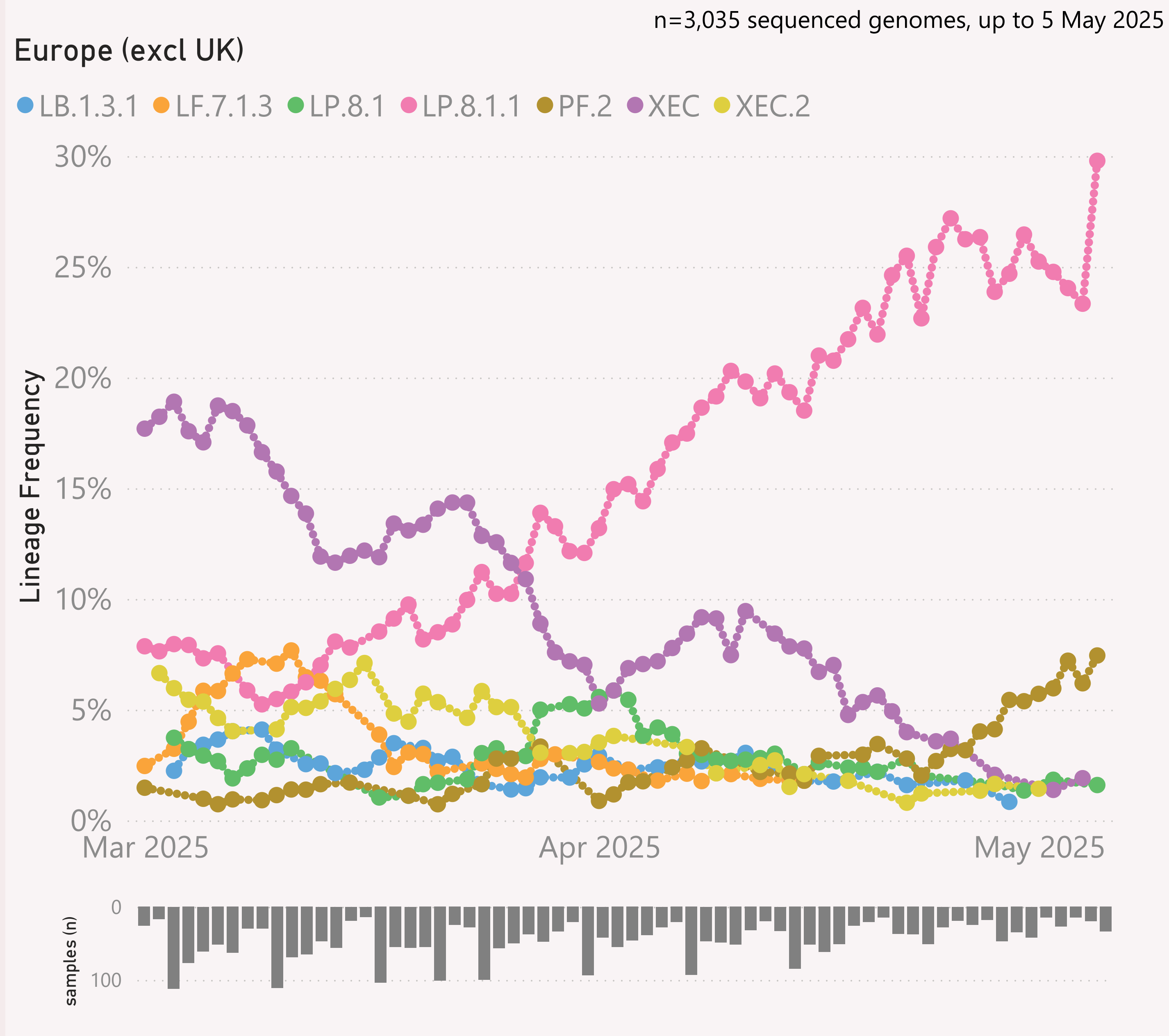● XFG ● XFG.1 ● XFG.2 ● XFJ ● XFJ.1 ● XFJ.2

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=3,035 sequenced genomes, up to 5 May 2025

Europe (excl UK)

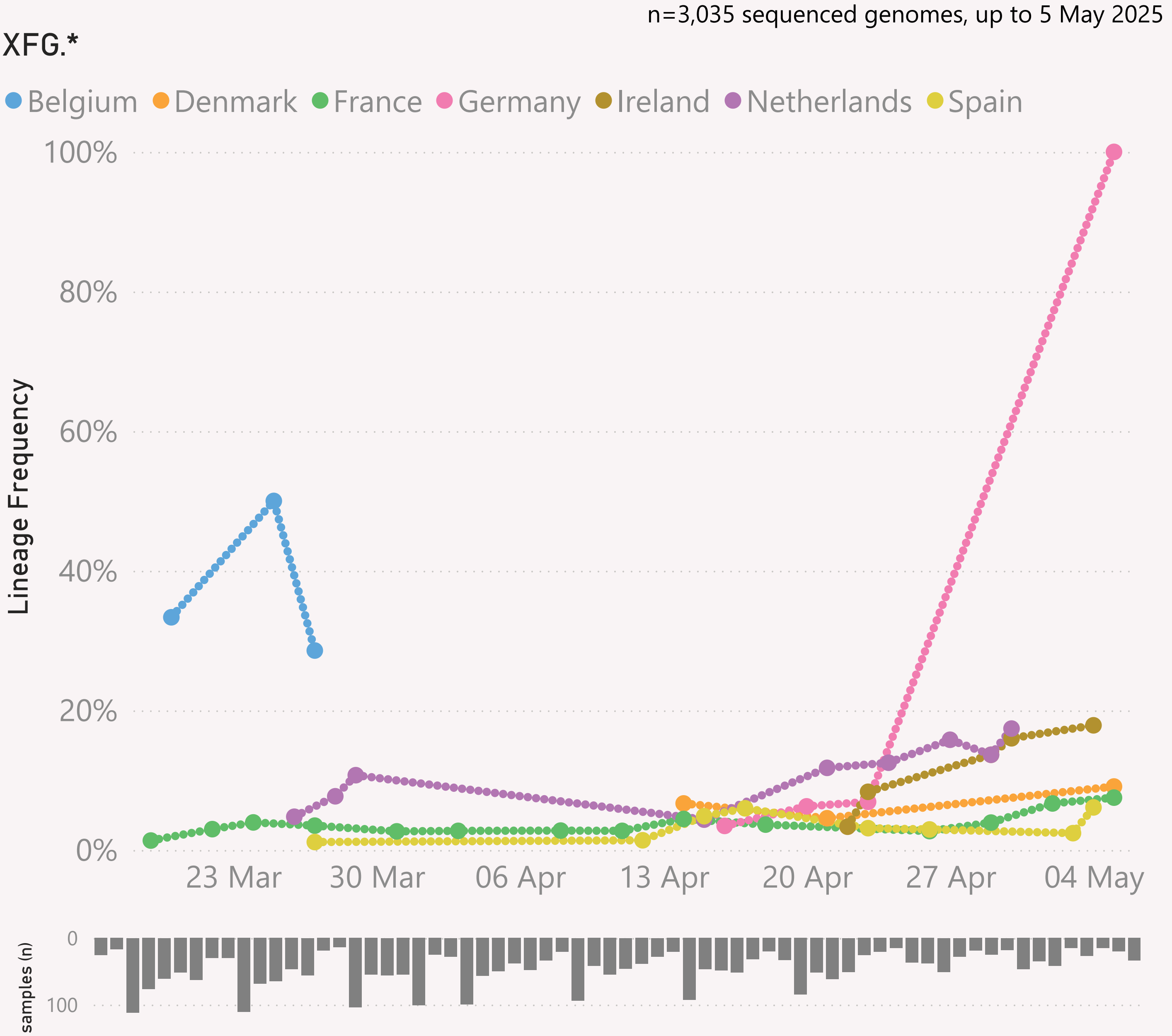● LB.1.3.1   ● LF.7.1.3   ● LP.8.1   ● LP.8.1.1   ● PF.2   ● XEC   ● XEC.2

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=3,035 sequenced genomes, up to 5 May 2025

XFG.*

- Belgium ● Denmark ● France ● Germany ● Ireland ● Netherlands ● Spain

Date

| 01/03/2025 | 31/12/2025 |

Continent, Country, Location

Multiple selections

Lineage L2

XFG.*

Host

Human

Samples Sequenced (gisaid)

62

Country	Location	Addi...	Collection date	Lineage L2	Lineage (nextc
Denmark			05/05/2025	XFG.*	XFG
Slovenia			05/05/2025	XFG.*	XFG
France	Auvergne-Rho...		05/05/2025	XFG.*	XFG
Germany	Bavaria		05/05/2025	XFG.*	XFG
Spain	Catalunya		04/05/2025	XFG.*	XFG
Ireland	Limerick		04/05/2025	XFG.*	XFG.2
Spain	Madrid		04/05/2025	XFG.*	XFG
Spain	Catalunya		03/05/2025	XFG.*	XFG
France	Auvergne-Rho...		02/05/2025	XFG.*	XFG
Ireland	Dublin		30/04/2025	XFG.*	XFG
Ireland	Limerick		30/04/2025	XFG.*	XFG.2
Netherlands	Utrecht		30/04/2025	XFG.*	XFG
France	Auvergne-Rho...		29/04/2025	XFG.*	XFG
Ireland	Dublin		29/04/2025	XFG.*	XFG
Netherlands	Gelderland		29/04/2025	XFG.*	XFG
Italy			28/04/2025	XFG.*	XFG
Netherlands	Noord-Brabant		27/04/2025	XFG.*	XFG.2
France	Auvergne-Rho...		26/04/2025	XFG.*	XFG
Spain	Catalunya		26/04/2025	XFG.*	XFG
Sweden	Stockholm		24/04/2025	XFG.*	XFG
Netherlands	Zuid-Holland		24/04/2025	XFG.*	XFG
Germany	Berlin		23/04/2025	XFG.*	XFG

Total

n=3,035 sequenced genomes, up to 5 May 2025

XFJ

● Denmark ● France ● Germany ● Ireland ● Italy ● Spain
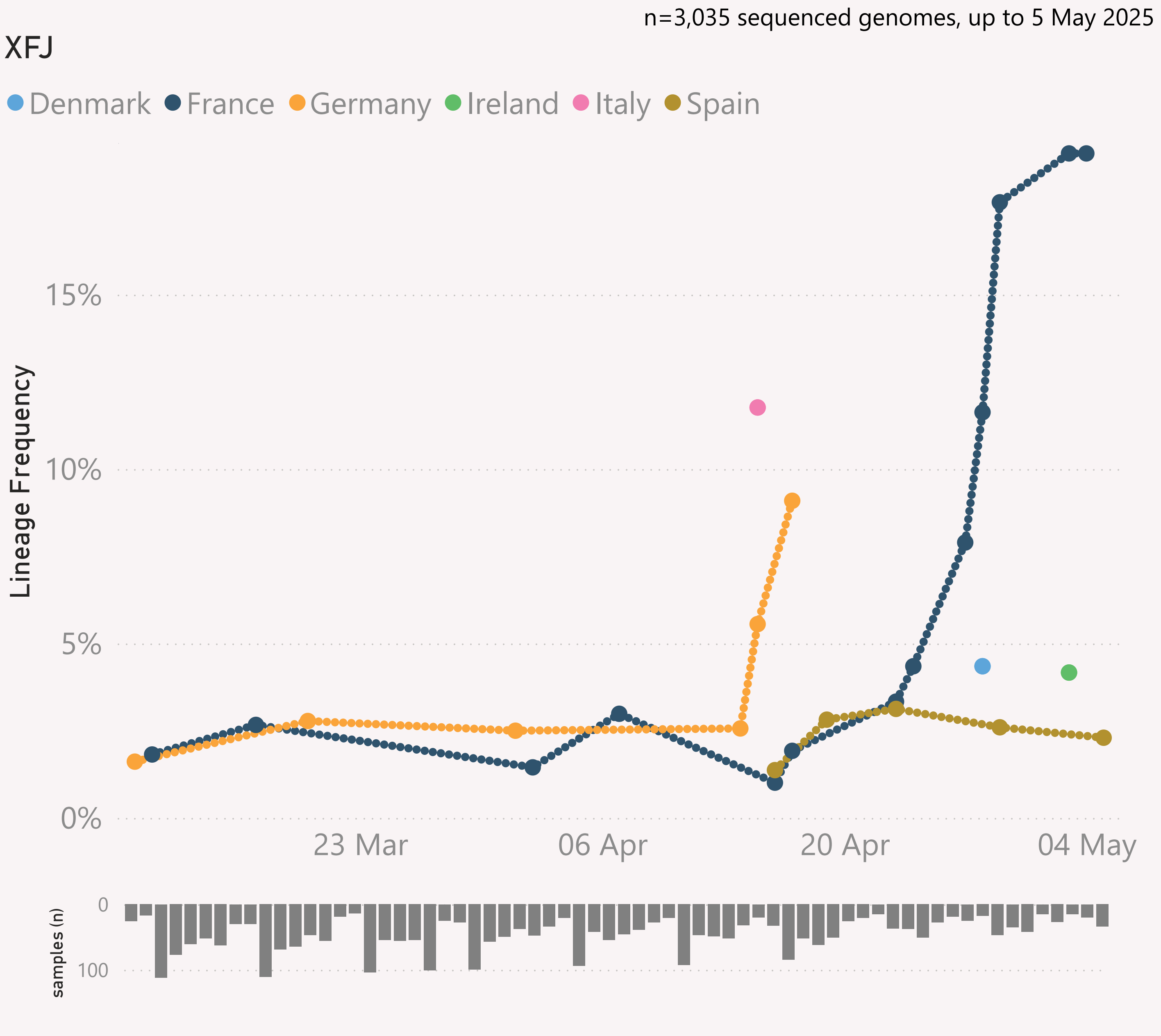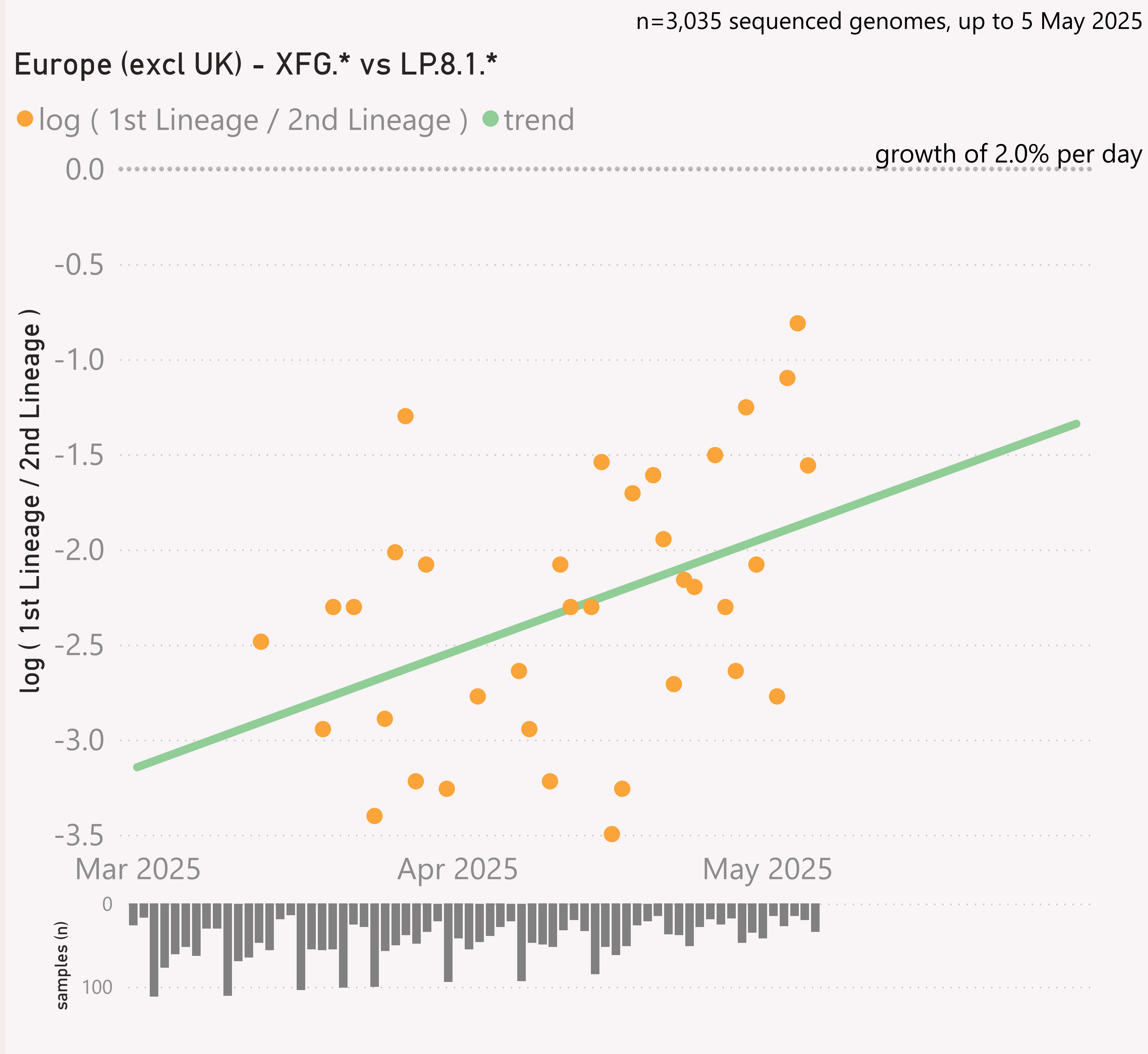

This page shows the frequency of a selected Lineage of interest, for the 7 countries reporting the most samples over recent months.

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=3,035 sequenced genomes, up to 5 May 2025

Europe (excl UK) – XFG.* vs LP.8.1.*
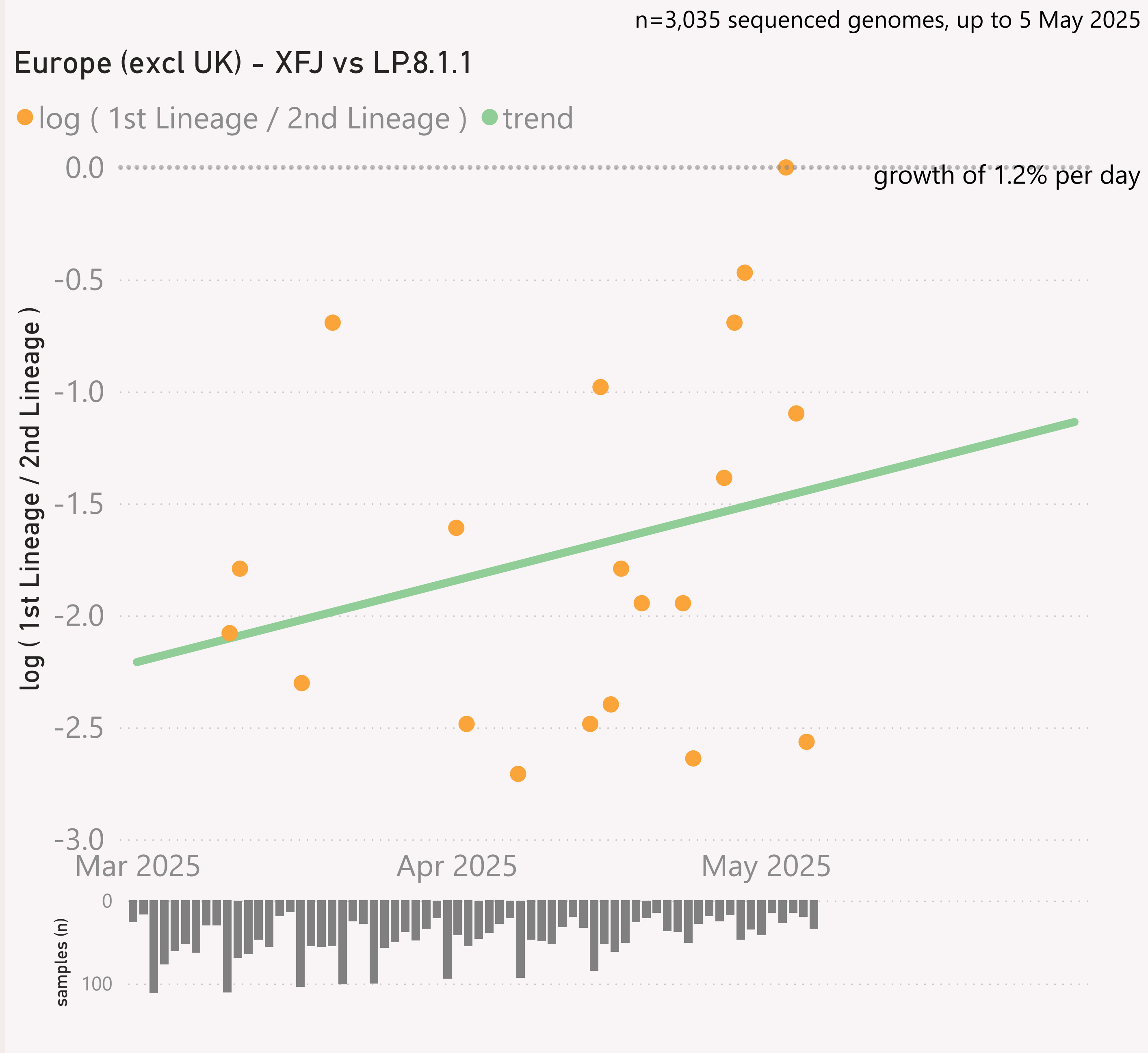
● log (1st Lineage / 2nd Lineage)　　● trend

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=3,035 sequenced genomes, up to 5 May 2025

Europe (excl UK) - XFJ vs LP.8.1.1

● log (1st Lineage / 2nd Lineage) ● trend
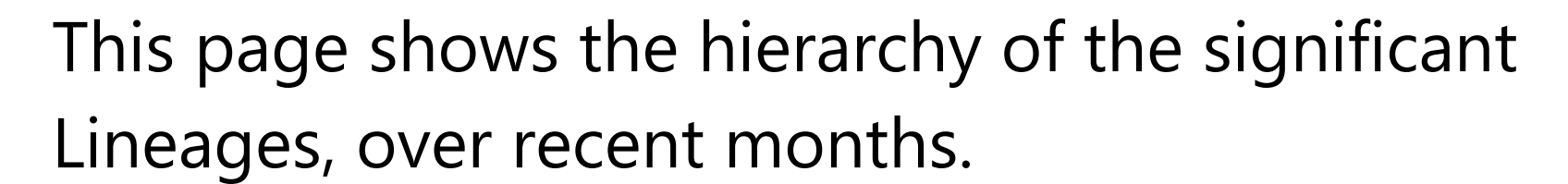
growth of 1.2% per day

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=3,035 sequenced genomes, up to 5 May 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.

Data Submitted in the last 8 weeks

Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
⊞ France	1,370	05/05/2025		02/05/2025	
⊞ Spain	689	05/05/2025		02/05/2025	
⊞ Luxembourg	390	01/04/2025		16/04/2025	
⊞ Germany	330	05/05/2025		02/05/2025	
⊞ Italy	213	05/05/2025		02/05/2025	
⊞ Denmark	198	05/05/2025		02/05/2025	
⊞ Ireland	181	05/05/2025		02/05/2025	
⊞ Netherlands	163	04/05/2025		02/05/2025	
⊞ Norway	149	18/04/2025		02/05/2025	
⊞ Sweden	126	28/04/2025		02/05/2025	
⊞ Finland	88	05/05/2025		02/05/2025	
⊞ Croatia	76	11/04/2025		02/05/2025	
⊞ Russia	71	15/04/2025		02/05/2025	
⊞ Portugal	54	14/04/2025		02/05/2025	
⊞ Slovenia	43	05/05/2025		02/05/2025	
⊞ Belgium	32	05/04/2025		30/04/2025	
⊞ Poland	19	22/04/2025		02/05/2025	
⊞ Lithuania	9	04/04/2025		02/05/2025	
⊞ Serbia	6	09/01/2025		04/04/2025	
⊞ Greece	1	04/04/2025		15/04/2025	
⊞ Slovakia	1	11/03/2025		22/04/2025	
⊞ Switzerland	1	30/08/2024		31/03/2025	
Total	**4,210**	**05/05/2025**		**02/05/2025**	

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.