n=46,464 sequenced genomes, up to 12 November 2024

Europe (excl UK)

● BA.2.86.* ● JN.1.* +DeFLuQE ● JN.1.* +FLiRT ● JN.1.* +FLuQE ● XDY.* ● XEC.*

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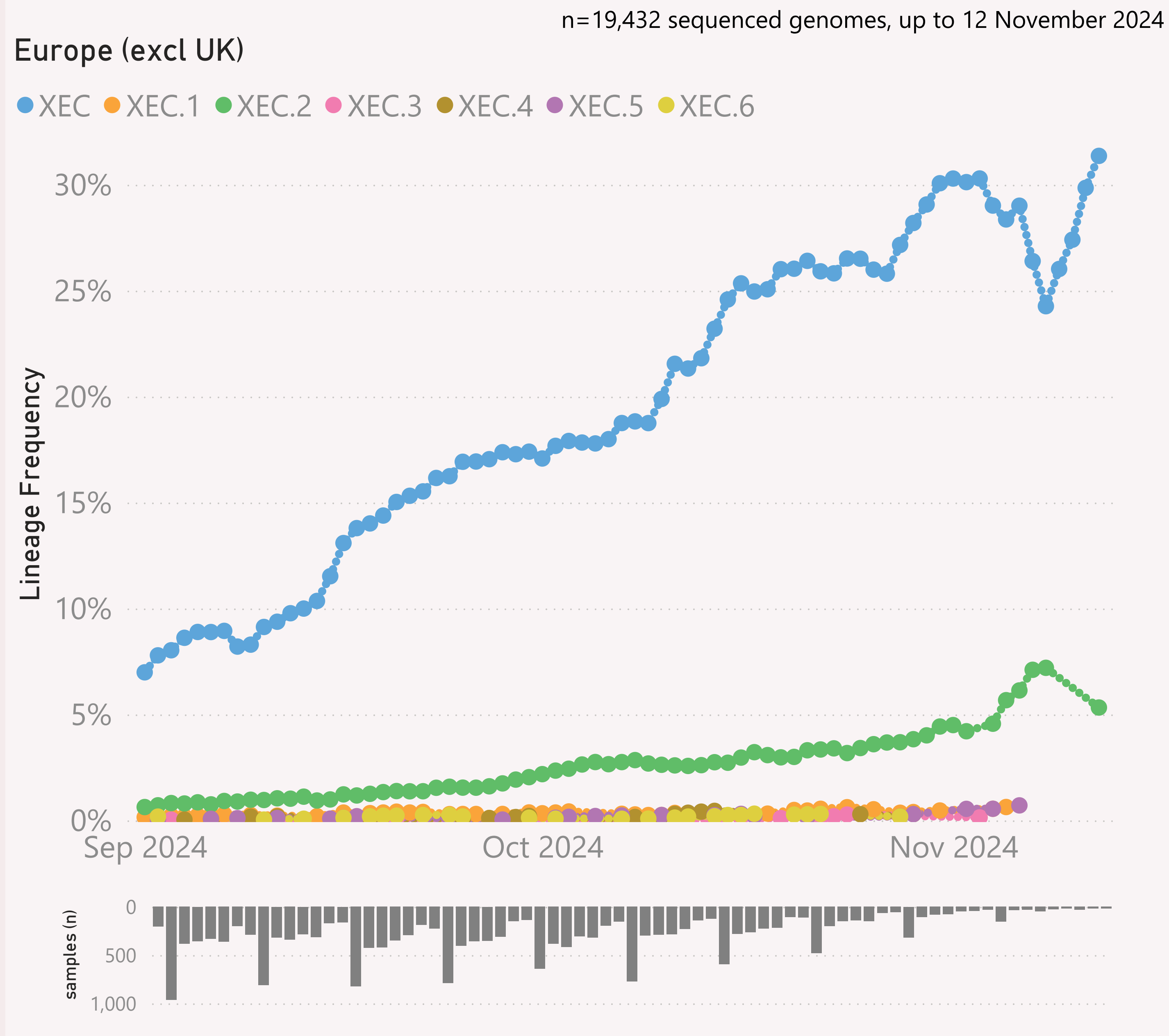
The detailed Lineage classifications are provided by Nextclade. I roll those up into "L2" groups, which roughly follow the WHO Variant definitions. For example, my "BA.2.86.*" group includes BA.2.86 and all it's descendants, e.g. the JN.* lineages.

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=19,432 sequenced genomes, up to 12 November 2024

Europe (excl UK)

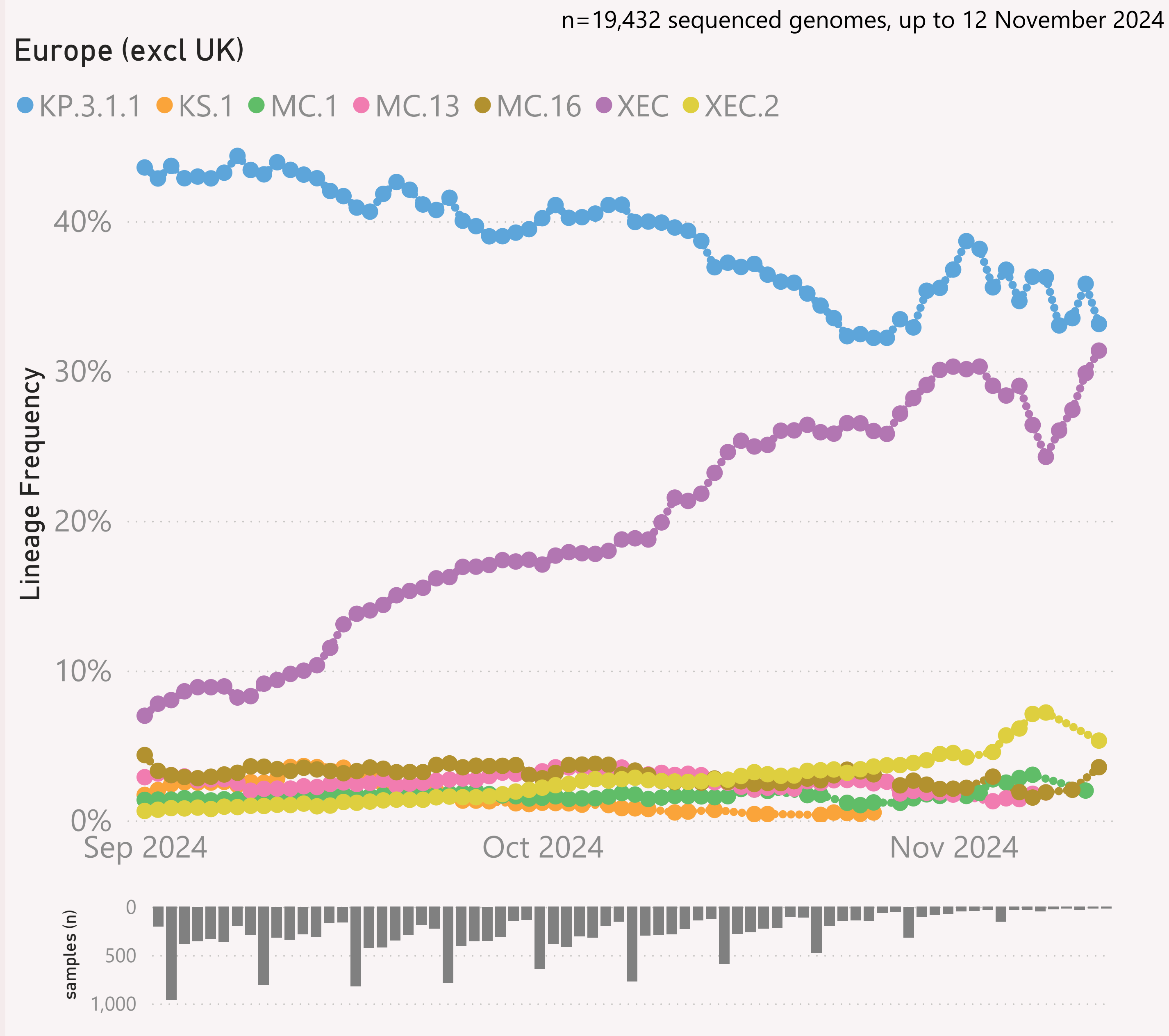● XEC ● XEC.1 ● XEC.2 ● XEC.3 ● XEC.4 ● XEC.5 ● XEC.6

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 "XEC.*".
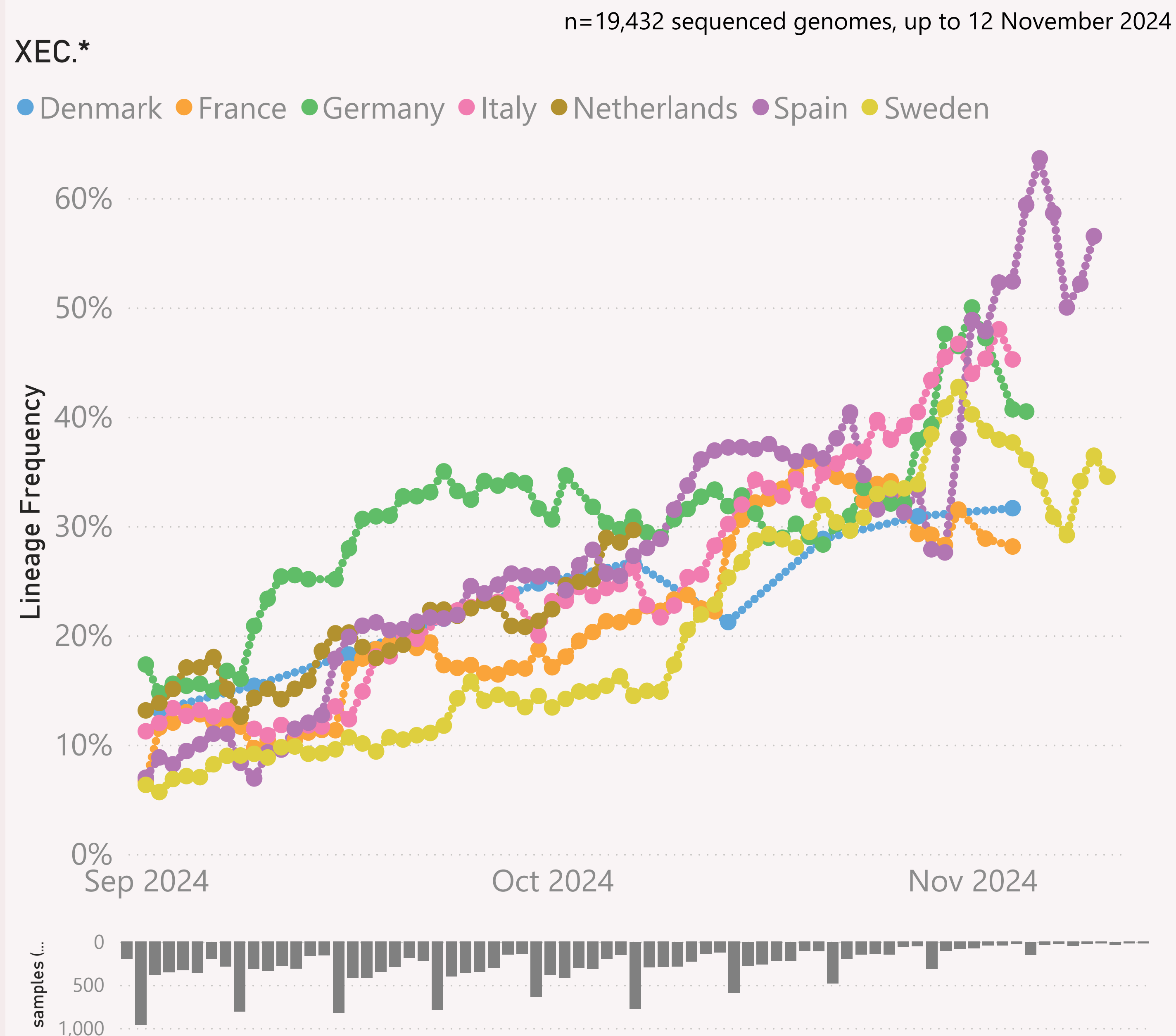
The Lineage classifications are provided by Nextclade. The colour assignments are random.

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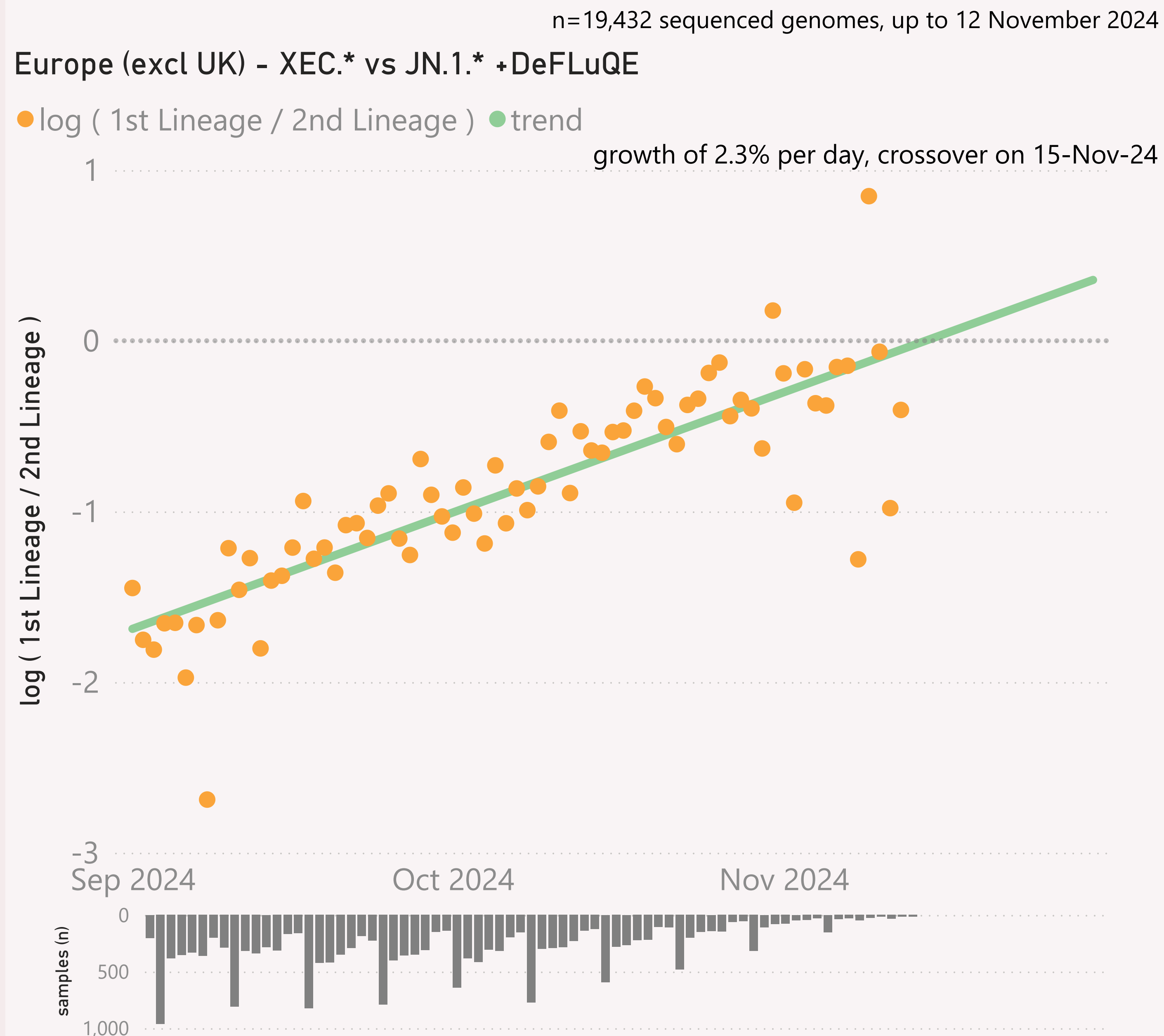
COVID-19 Genomic Sequencing analysis. Lineage Frequencies for Australia. Data from gisaid.org, with nextclade lineages. Source files and more info on github.

Last Update: 2024-11-24 00:35 (UTC)

n=19,432 sequenced genomes, up to 12 November 2024

Europe (excl UK)

● KP.3.1.1 ● KS.1 ● MC.1 ● MC.13 ● MC.16 ● 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.
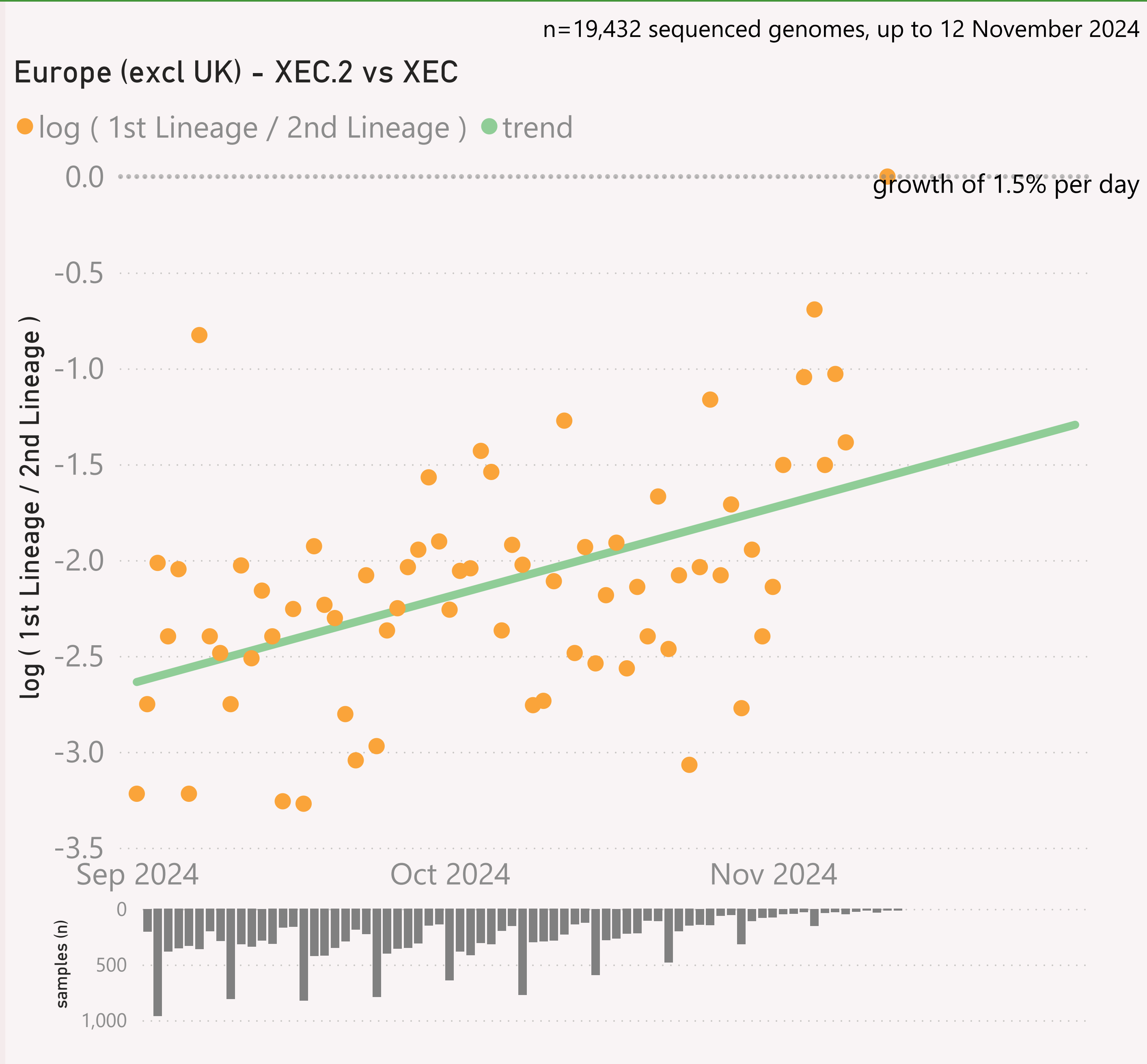
n=19,432 sequenced genomes, up to 12 November 2024

XEC.*

● Denmark ● France ● Germany ● Italy ● Netherlands ● Spain ● Sweden

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=19,432 sequenced genomes, up to 12 November 2024

LF.7

● Denmark ● France ● Germany ● Ireland ● Italy ● Netherlands ● Russia ● Sweden
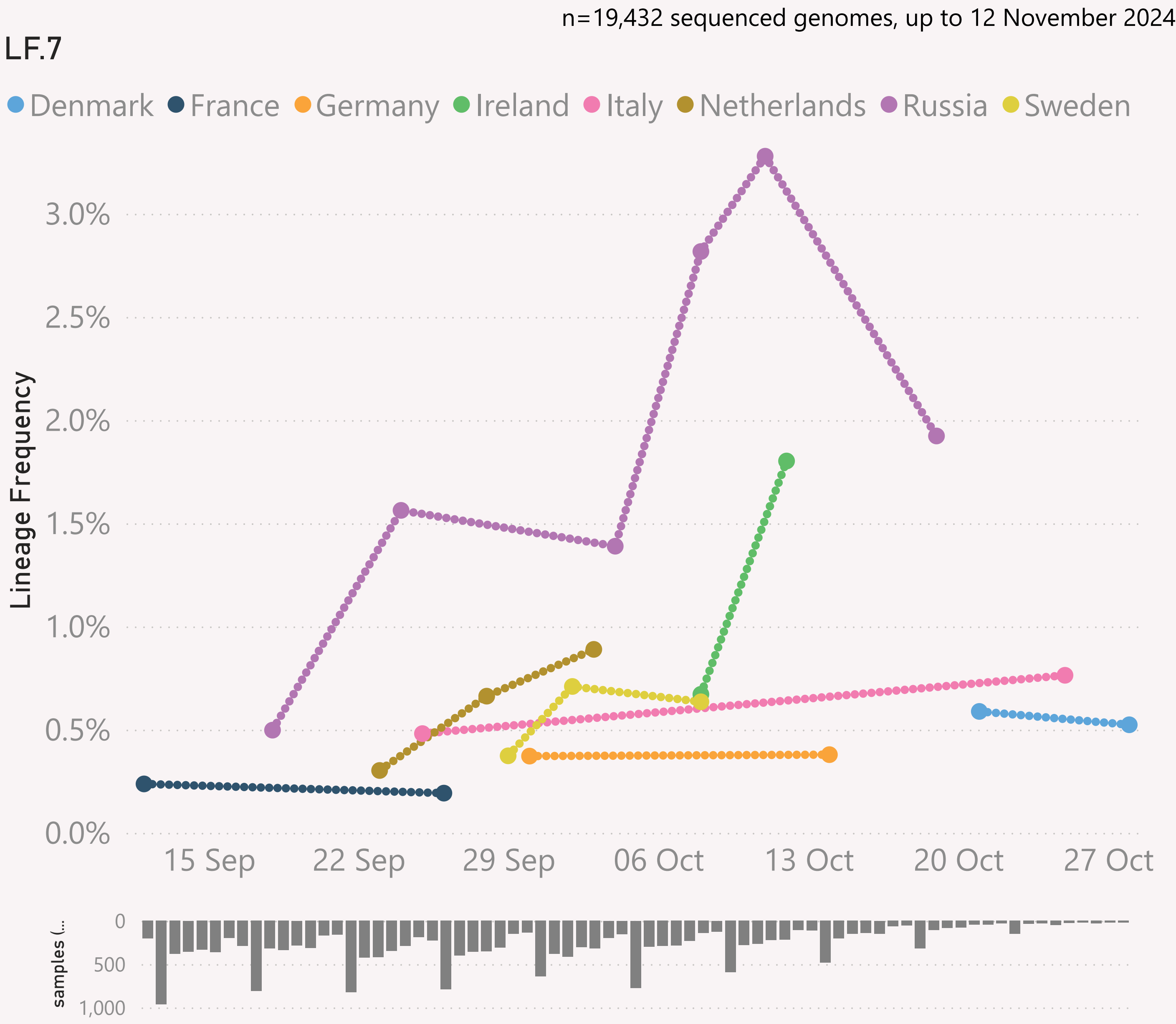
This page shows the frequency of a selected Lineage of interest, for the 7 countries reporting the most samples over recent months.

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=19,432 sequenced genomes, up to 12 November 2024

Europe (excl UK) - XEC.* vs JN.1.* +DeFLuQE

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

growth of 2.3% per day, crossover on 15-Nov-24

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=19,432 sequenced genomes, up to 12 November 2024

Europe (excl UK) – XEC.2 vs XEC

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

growth of 1.5% 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=19,475 sequenced genomes, up to 12 November 2024

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.
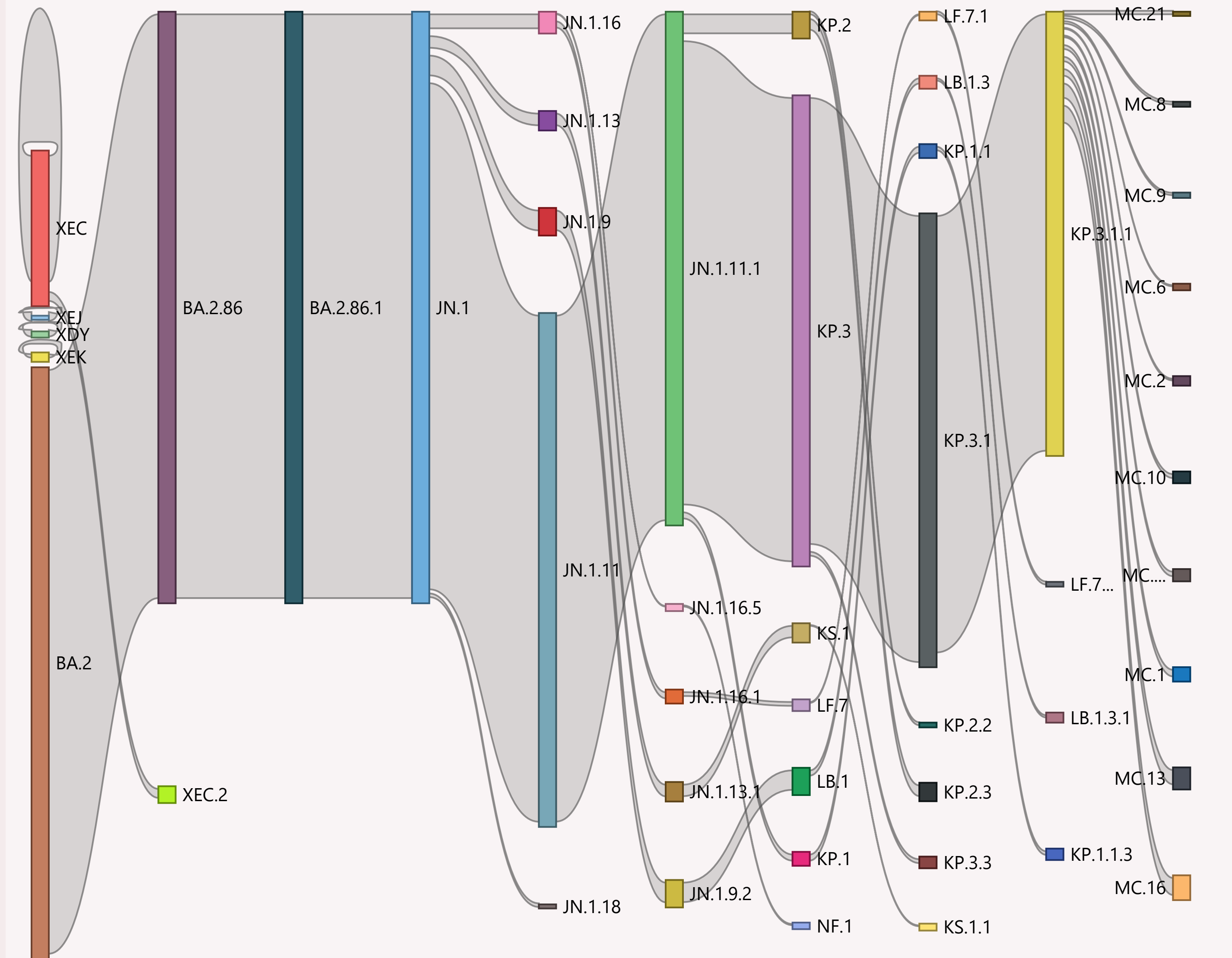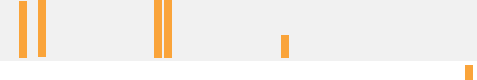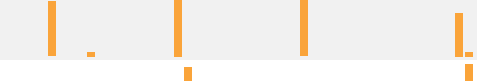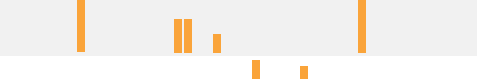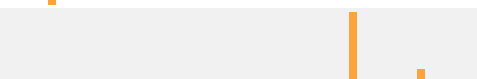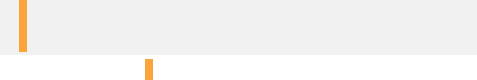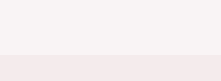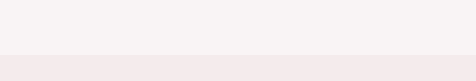
The Lineage classifications are provided by Nextclade.

Data Submitted in the last 8 weeks

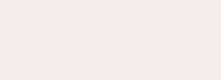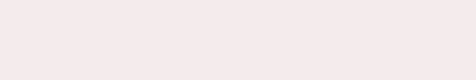| Country	# Samples Sequenced	Latest Collection date	by Collection date	Latest Submission date	by Submission date
⊞ Spain	4,125	12/11/2024		16/11/2024	
⊞ France	2,670	04/11/2024		16/11/2024	
⊞ Sweden	2,600	11/11/2024		16/11/2024	
⊞ Germany	1,818	05/11/2024		16/11/2024	
⊞ Denmark	1,697	04/11/2024		16/11/2024	
⊞ Italy	1,678	07/11/2024		16/11/2024	
⊞ Russia	1,412	31/10/2024		13/11/2024	
⊞ Netherlands	1,289	08/10/2024		28/10/2024	
⊞ Ireland	794	12/11/2024		16/11/2024	
⊞ Greece	492	04/10/2024		31/10/2024	
⊞ Poland	421	04/11/2024		16/11/2024	
⊞ Luxembourg	359	30/10/2024		16/11/2024	
⊞ Cyprus	309	28/02/2024		28/10/2024	
⊞ Slovenia	282	10/11/2024		16/11/2024	
⊞ Ukraine	222	27/10/2024		16/11/2024	
⊞ Portugal	214	22/10/2024		04/11/2024	
⊞ Slovakia	203	28/10/2024		15/11/2024	
⊞ Czechia	178	09/10/2024		16/11/2024	
⊞ Finland	166	07/10/2024		31/10/2024	
⊞ Belgium	125	14/10/2024		05/11/2024	
⊞ Austria	122	06/11/2024		16/11/2024	
⊞ Norway	94	20/10/2024		01/11/2024	
⊞ Kosovo	80	12/08/2024		04/10/2024	
⊞ Croatia	79	29/10/2024		11/11/2024	
⊞ Hungary	68	27/09/2024		11/11/2024	
⊞ Romania	4	26/08/2024		01/10/2024	
⊞ Bulgaria	1	26/09/2024		14/10/2024	
Total	**21,502**	**12/11/2024**		**16/11/2024**	

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.