n=4,690 sequenced genomes, up to 5 April 2024

United States

- JN.1
- JN.1.13.1
- JN.1.4
- JN.1.4.5
- JN.1.7
- JN.1.8.1
- KP.2

Lineage Frequency

30%
25%
20%
15%
10%
5%
0%

03 Mar   10 Mar   17 Mar   24 Mar   31 Mar
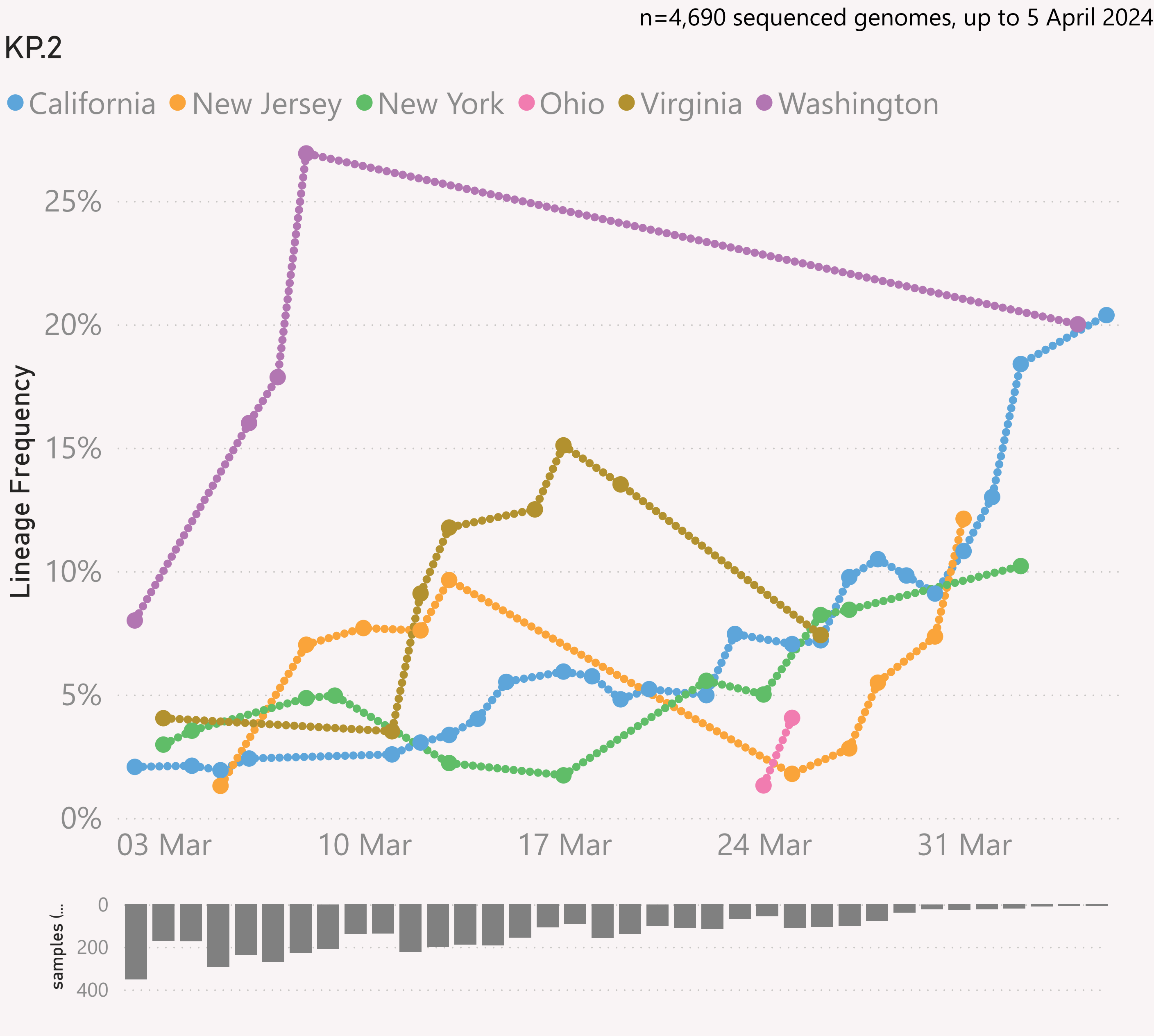
samples (n)
0
200
400

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.

Linear   Log

n=4,690 sequenced genomes, up to 5 April 2024

KP.2

● California ● New Jersey ● New York ● Ohio ● Virginia ● Washington

This page shows the frequency of a selected Lineage of interest, across the leading States, 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 state.
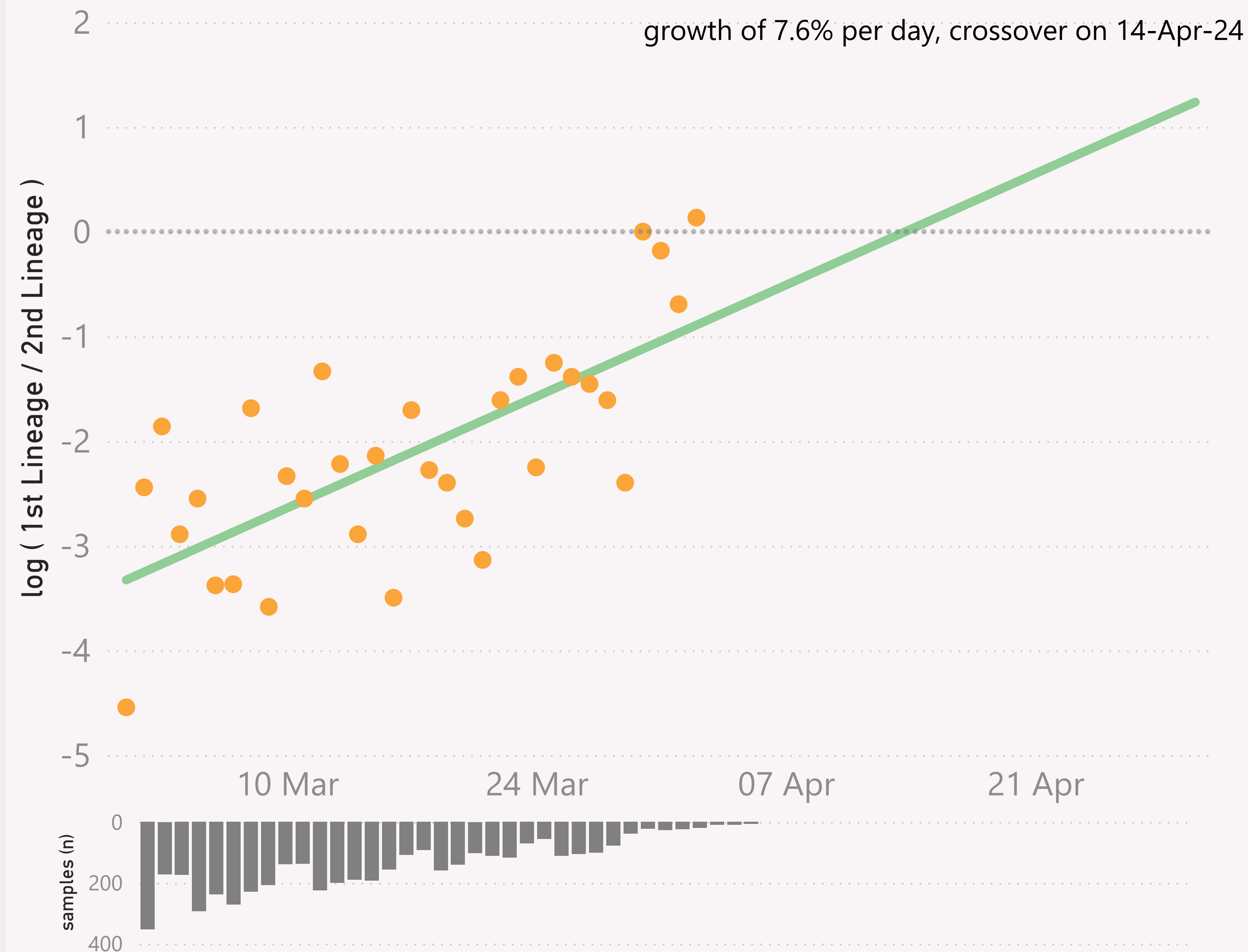
The grey column chart across the bottom shows the volume of sequences available by date. As there can be long sample and data processing times, it is quite routine for recent dates to show lower sample sizes.

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

Linear   Log

n=4,690 sequenced genomes, up to 5 April 2024

United States – KP.2 vs JN.1

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

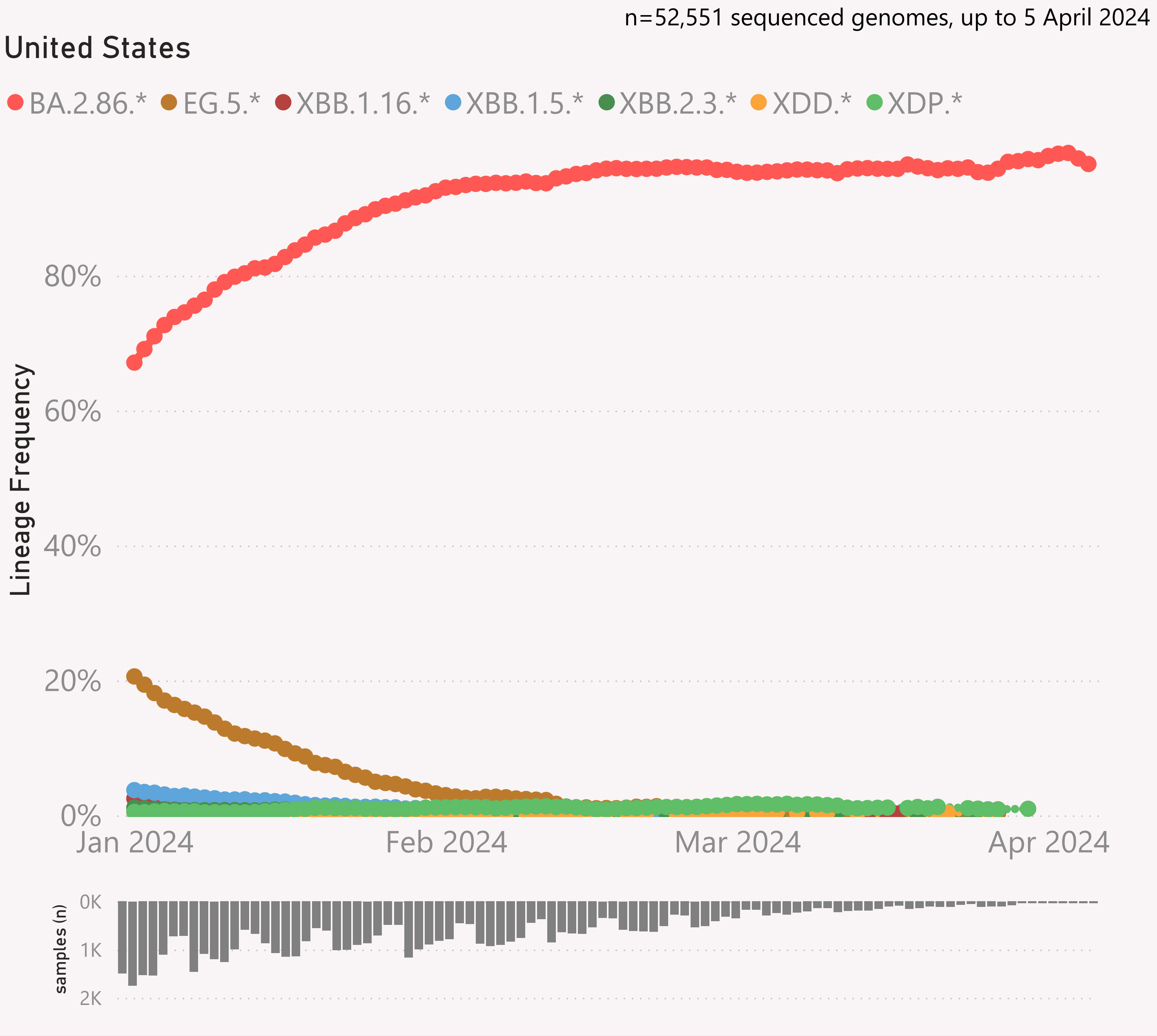growth of 7.6% per day, crossover on 14-Apr-24

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=52,551 sequenced genomes, up to 5 April 2024

United States

● BA.2.86.* ● EG.5.* ● XBB.1.16.* ● XBB.1.5.* ● XBB.2.3.* ● XDD.* ● XDP.*

Linear　Log

This page shows the frequency of the top 7 "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.
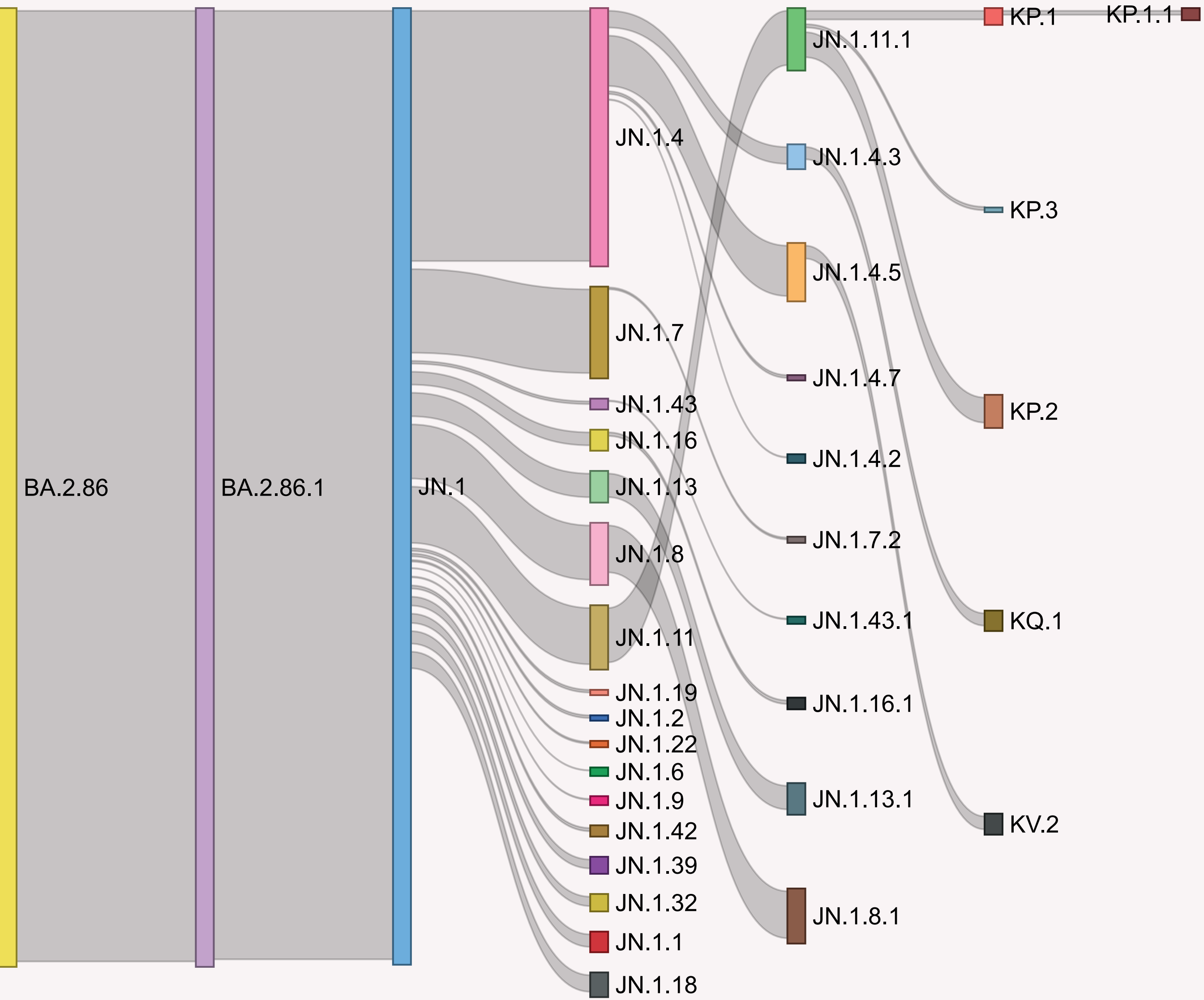
The frequency shown at each point is based on the 7-day rolling average across all lineages.

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 sankey diagram. Data from gisaid.org, with nextclade lineages. Source files and more info on github.

Last Update: 2024-04-16 02:57 (UTC)

n=4,705 sequenced genomes, up to 5 April 2024

United States

BA.2.86 → BA.2.86.1 → JN.1

JN.1.4
JN.1.7
JN.1.43
JN.1.16
JN.1.13
JN.1.8
JN.1.11
JN.1.19
JN.1.2
JN.1.22
JN.1.6
JN.1.9
JN.1.42
JN.1.39
JN.1.32
JN.1.1
JN.1.18

JN.1.11.1
JN.1.4.3
JN.1.4.5
JN.1.4.7
JN.1.4.2
JN.1.7.2
JN.1.43.1
JN.1.16.1
JN.1.13.1
JN.1.8.1

KP.1 → KP.1.1
KP.3
KP.2
KQ.1
KV.2

Show most significant labels

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: 2024-04-16 02:57 (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**	**35,773**	**05/04/2024**		**10/04/2024**	
California	8,883	05/04/2024		10/04/2024	
New York	5,615	04/04/2024		10/04/2024	
Texas	2,702	27/03/2024		10/04/2024	
Colorado	2,062	27/03/2024		09/04/2024	
Utah	1,659	28/03/2024		09/04/2024	
Tennessee	1,362	29/03/2024		10/04/2024	
Illinois	1,231	28/03/2024		09/04/2024	
New Jersey	1,195	04/04/2024		10/04/2024	
Virginia	1,091	04/04/2024		10/04/2024	
Hawaii	947	20/03/2024		10/04/2024	
Minnesota	925	21/03/2024		09/04/2024	
Ohio	731	27/03/2024		10/04/2024	
Oregon	546	26/03/2024		09/04/2024	
Pennsylvania	516	29/03/2024		09/04/2024	
Louisiana	505	02/04/2024		08/04/2024	
Georgia	484	25/03/2024		10/04/2024	
Washington	457	04/04/2024		10/04/2024	
Florida	421	03/04/2024		10/04/2024	
New Mexico	410	22/03/2024		10/04/2024	
Connecticut	406	15/03/2024		10/04/2024	
Arizona	350	29/03/2024		10/04/2024	
North Carolina	269	01/04/2024		09/04/2024	
Rhode Island	267	21/03/2024		10/04/2024	
Massachusetts	250	29/03/2024		10/04/2024	
Missouri	222	11/03/2024		04/04/2024	
Delaware	211	28/03/2024		09/04/2024	
Iowa	207	29/03/2024		04/04/2024	
Total	**35,773**	**05/04/2024**		**10/04/2024**	

This page shows the volume and currency/timeliness of the genomic sequencing data shared via GISAID, over the last 8 weeks. A breakdown of the leading states (by volume) is shown.

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.