

# NCBI SARS-CoV-2 Data Hub

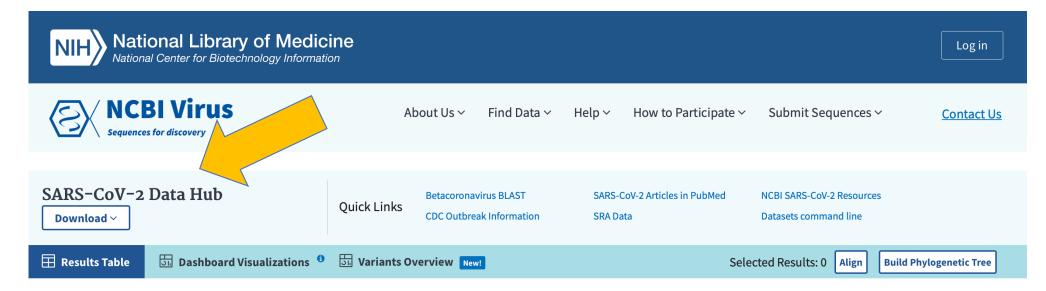
Find sequenced genomes of viruses from patient samples

We want to look at samples from humans, but it's not limited to humans

Download files to your computer from NCBI

Get the sequence data files to logrus

Look at data



### 1 New! Randomized subsets in Downloads

You now have the option of downloading a smaller, randomized subset of the data shown in the Results table. Begin by using filters to refine your dataset, select the Nucleotide, Protein, or RefSeq Genome tab above the table for the datatype you would like to download, then follow the prompts in the Download menu. Our Help documentation has more information.

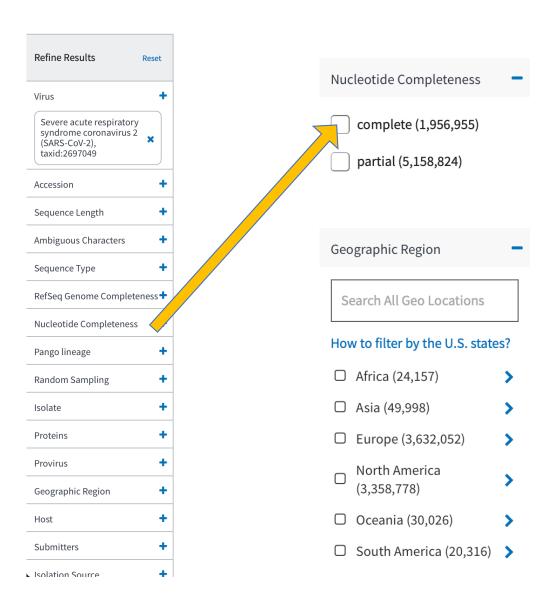
Refine Results Reset

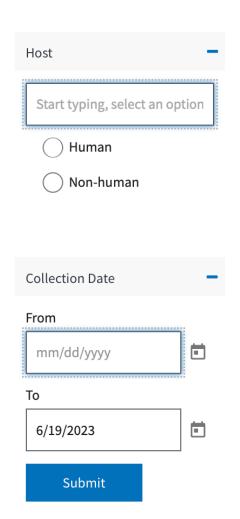
Nucleotide (7,115,779)

Protein (41,160,434)

RefSeq Genome (1)

Select Columns





#### wnloads

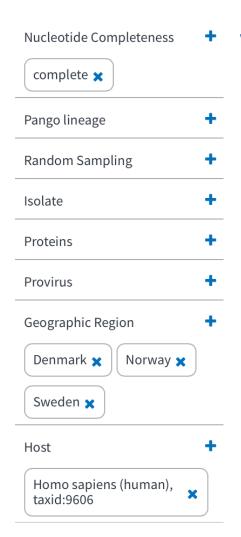
ng a smaller, randomized subset of the data shown in the Results table. Begin by using filters to refine your dataset, select the Nucleotide, Protein, or RefSeq Genome tab above the table for the hen follow the prompts in the Download menu. Our Help documentation has more information.

	Nu	cleotide (7,115,77	'9)	Protein (41,160,434	4)	RefSeq G	enome (1)							Select Columns
Table		Accession \$				Submitters Organization Wall In the Center for Diote		Release Date Pangolin P		Isolate \$ Spe		acute respiratory		
and		NO 0 10011		,,										
Exp		OR131333	Severe acute respiratory		Howa	Howard,D., et Centers for		isease Contr	2023-06-14	XBE		PA-CDC-LC1043852	Severe	acute respiratory
		OD121224	Sovio	ro acuto rocniratory	Цоша	rd D at	Contare for D	icasca Cantr	2022 06 14	VDI	۵	A7 CDC   C1042010	Covere	acuto rechiratory

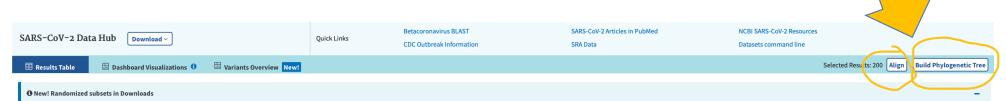


Select Columns

Add or Remove Columns From	the Results Table	
Columns to add:	<b>Displayed columns</b> (click to remove from the view):	
<b>★</b> SRA Accession	<b>≭</b> <u>Accession</u>	
+ Genus	<b>★</b> Organism Name New!	
+ Family	<b>≭</b> <u>Submitters</u>	
◆ <u>Sequence Type</u>	<b>≭</b> <u>Organization</u>	
<b>→</b> Nuc Completeness	<b>≭</b> <u>Release Date</u>	
<b>+</b> <u>Genotype</u>	<b>≭</b> <u>Pangolin</u>	
<b>★</b> Segment	<b>≭</b> <u>Isolate</u>	
+ <u>Publications</u>	<b>≭</b> <u>Species</u>	
+ Country	<b>x</b> Molecule type	
<b>+</b> BioSample	<b>≭</b> <u>Length</u>	
<b>+</b> GenBank Title	<b>≭</b> <u>Geo Location</u>	
	<b>≭</b> <u>USA</u>	
	<b>X</b> <u>Host</u>	Jback
	<b>≭</b> <u>Isolation Source</u>	Feedback
	<b>X</b> Collection Date	_



Nucleotide (635)		Protein (6,706)	Re	efSeq Genome (0)			
	Accession 🕏	Organism Name News	<b>‡</b>	Submitters 🗣	Or	ganization 🕏	Release Da
	OR079912	Severe acute respirato	ry	Smura,T.P.,	NT	NU, IKOM, Norway	2023-06-
	<u>OQ843561</u>	Severe acute respirato	ry	Binderup,A	Un	iversity of Copenhage	2023-04-
	<u>OQ816151</u>	Severe acute respirato	ry	Albert,J., et al.	Ka	rolinska University Ho	2023-04-
	<u>OQ816152</u>	Severe acute respirato	ry	Albert,J., et al.	Ka	rolinska University Ho	2023-04-
	<u>OQ816154</u>	Severe acute respirato	ry	Albert,J., et al.	Ka	rolinska University Ho	2023-04-
	<u>OQ816156</u>	Severe acute respirato	ry	Albert,J., et al.	Ka	rolinska University Ho	2023-04-
	OQ816157	Severe acute respirato	ry	Albert,J., et al.	Ka	rolinska University Ho	2023-04-

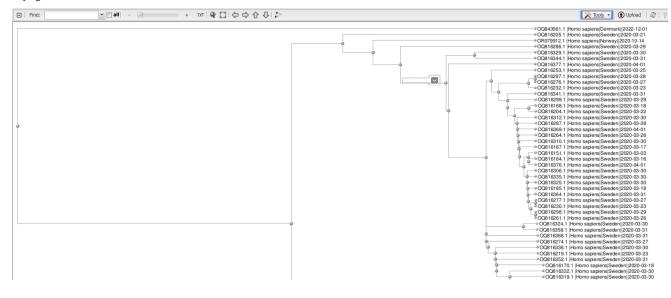


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	Nucl	leotide (635)	Protein (6,706)	RefSeq Genome (	D)										Select Colum	ins
Table		Accession \$	Organism Name New!	Submitters 🕏	Organization 🕏	Release Date ♥	Pangolin 🕏	Isolate 🕏	Species 🕏	Molecule type <del> </del>	Length <b>‡</b>	Geo Location 🕏	USA <b>≑</b>	Host <b></b>	Isolation Source 🕏	Colle
Expano	<u>~</u>	OR079912	Severe acute respiratory	Smura,T.P.,	NTNU, IKOM, Norway	2023-06-02	B.1.258	P9	Severe acute respirator	ssRNA(+)	29825	Norway		Homo sapiens	oronasopharynx	20:
		<u>OQ843561</u>	Severe acute respiratory	Binderup,A	University of Copenhag	2023-04-19	BQ.1.1.20	DK-AHH8	Severe acute respirator	ssRNA(+)	29752	Denmark		Homo sapiens	oronasopharynx	20:
	•	OQ816151	Severe acute respiratory	Albert, J., et al.	Karolinska University H	2023-04-14	B.1	01_SE100_21CS503718	Severe acute respirator	ssRNA(+)	29736	Sweden		Homo sapiens	oronasopharynx	20:

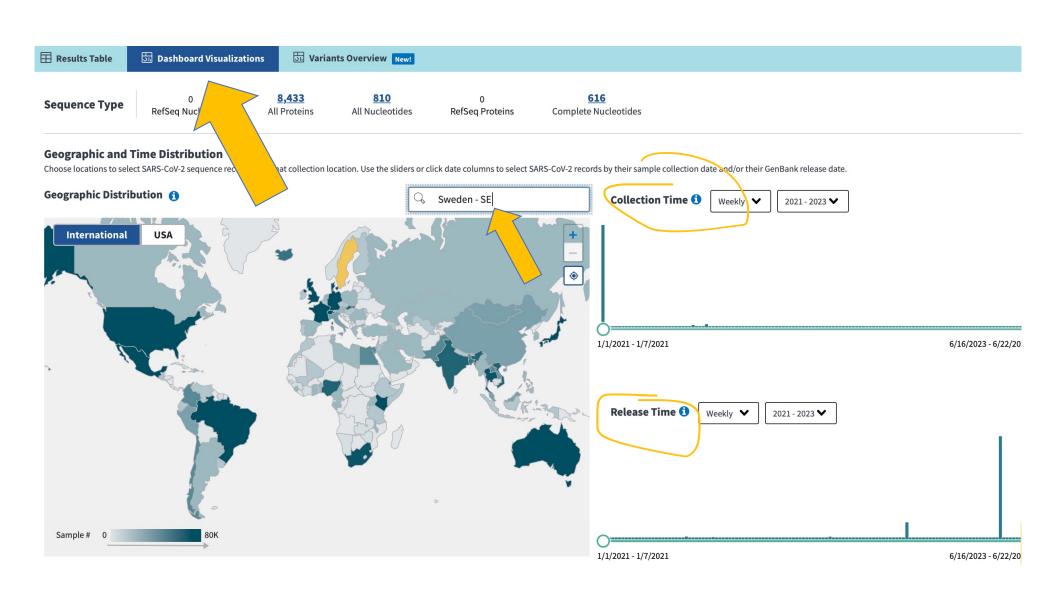
#### Phylogenetic Tree

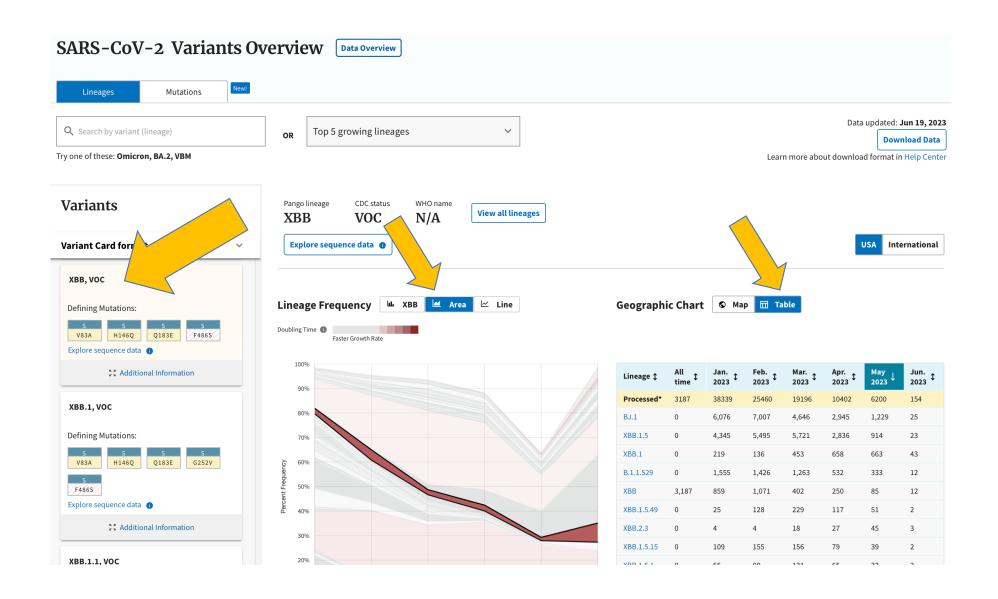


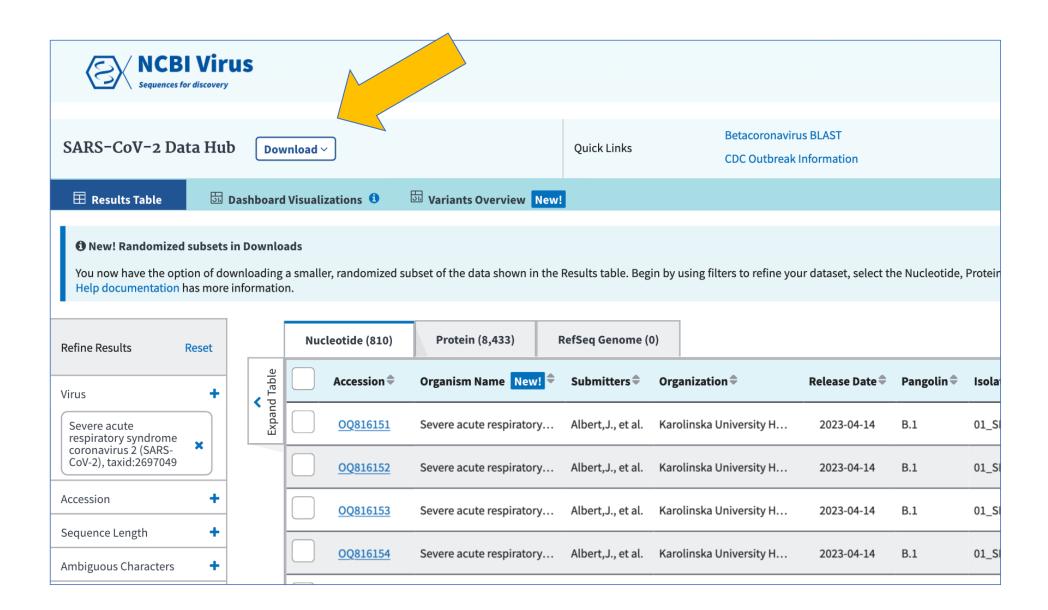
#### Multiple Alignment

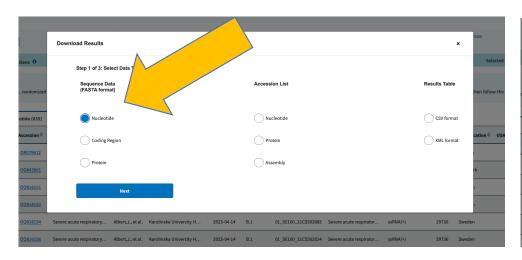


Nuc	leotide (635)	Protein (6,706)	efSeq Genome (0)					Select Columns
	Accession	Organism •	Submitters 🕏	Release Date 🕏	Pangolin 🕏	Isolate 🕏	Species 🕏	Length <b>♦</b>
	WIF20394	Severe acute r	Smura,T.P.,	2023-06-02	B.1.258	P9	Severe acute respiratory	7096
	WIF20395	Severe acute respir	Smura,T.P.,	2023-06-02	B.1.258	P9	Severe acute respiratory	4405
	WIF20396	Severe acute respiratory	Smura,T.P.,	2023-06-02	B.1.258	P9	Severe acute respiratory	1271
	WIF20397	Severe acute respiratory	Smura,T.P.,	2023-06-02	B.1.258	P9	Severe acute respiratory	275
	WIF20398	Severe acute respiratory	Smura,T.P.,	2023-06-02	B.1.258	P9	Severe acute respiratory	75
	WIF20399	Severe acute respiratory	Smura,T.P.,	2023-06-02	B.1.258	P9	Severe acute respiratory	222

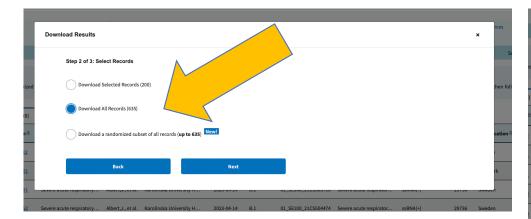


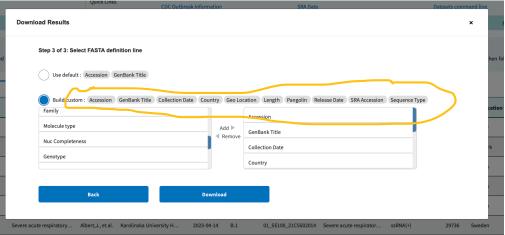


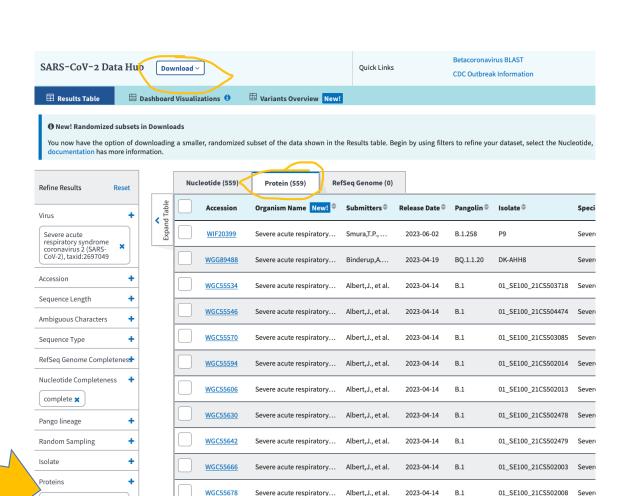












Severe acute respiratory... Albert, J., et al.

2023-04-14

B.1

01\_SE100\_21CS501379 Sever

membrane glycoprotein 🗙

Homo sapiens (human), x

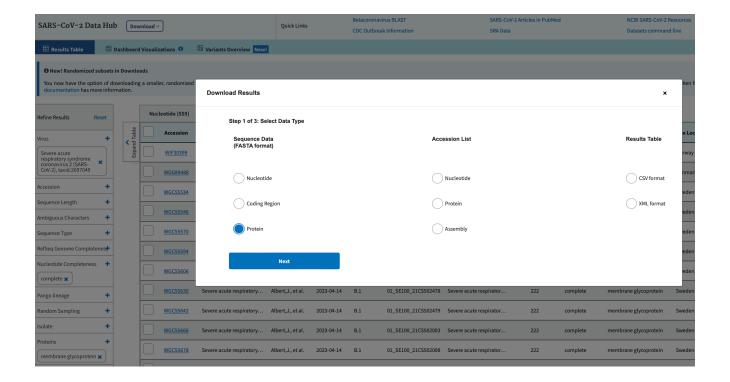
Provirus

Geographic Region

Denmark \* Norway \*

Sweden X

WGC55690



Now repeat the steps with your 3 countries

### Copy your file to logrus

- ssh into logrus
- Make a directory called NCBIdata
- cd to NCBIdata
- Secure copy fasta file from your computer to logrus

## Getting familiar with data in files

• How many accession numbers are there for one of your countries?