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Version 1

## SARS-CoV2 GISAID submission protocol V.1

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Coronavirus Method De...

PHA4GE



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**Protocol status:** Working

**We use this protocol and it's working**

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**Last Modified:** November 10, 2021

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## Abstract

This protocol provides the steps needed to establish a new GISAID submission environment for your laboratory. Once established, this protocol covers genome submission sample meta to GISAID.

## GISAID Submissions

- 1 GISAID submissions require contextual information (metadata) and the COVID-19 consensus sequence or genome sequence. It is much simpler than other databases, as it has no hierarchical structure. In GISAID, one set of contextual information links to one genome assembly.

We advise that contextual information should be in line with the **PHA4GE metadata specification**: <https://github.com/pha4ge/SARS-CoV-2-Contextual-Data-Specification>

GISAID has its own extensive documentation, which is available once you have registered. You are encouraged to write to the GISAID curators if there are any issues. This protocol, therefore, is a brief overview to help you get started.

- 1.1 You can register on GISAID here: <https://www.gisaid.org/registration/register/>

There are strict terms on your rights to your data, and how you can use other submitted data. Please read these terms carefully. There will be a registration form to fill

folder, too; the confirmation email will have your full name in the subject line.

| Personal Data                                                                                                                    |                                                   |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| Mr/Ms*                                                                                                                           | <input type="radio"/> Ms <input type="radio"/> Mr |
| Salutation                                                                                                                       | <input type="text"/>                              |
| First name*                                                                                                                      | <input type="text"/>                              |
| Middle name                                                                                                                      | <input type="text"/>                              |
| Last name*                                                                                                                       | <input type="text"/>                              |
| Title                                                                                                                            | <input type="text"/>                              |
| Desired Login ID*                                                                                                                | <input type="text"/>                              |
| Contact Information                                                                                                              |                                                   |
| Use your company or research institute's email! Web emails such as Gmail or Yahoo will lead to significant delays in processing. |                                                   |
| Institution*                                                                                                                     | <input type="text"/>                              |
| Department                                                                                                                       | <input type="text"/>                              |
| Street 1*                                                                                                                        | <input type="text"/>                              |
| Postal code                                                                                                                      | <input type="text"/>                              |
| City*                                                                                                                            | <input type="text"/>                              |
| Location*                                                                                                                        | <input type="text" value="Select location"/>      |
| State/province                                                                                                                   | <input type="text"/>                              |
| Telephone*                                                                                                                       | <input type="text"/>                              |
| Fax                                                                                                                              | <input type="text"/>                              |
| Mobile                                                                                                                           | <input type="text"/>                              |
| E-Mail*                                                                                                                          | <input type="text"/>                              |

**Data Access Agreement**

GISAID Registration form



Once submitted, your registration will be moderated and you should receive an email notification. Your registration request is manually inspected, so this may take some time.

## 1.2 GISAID Submission methods

There are two submission methods;

1. Uploading single samples.
2. Batch upload of multiple samples.

In both cases, we advise that contextual information should be in line with the **PHA4GE metadata specification**.

A brief overview of the fields and guidance are tabulated below. Extended description of the specification is available here: <https://github.com/pha4ge/SARS-CoV-2-Contextual-Data-Specification>

These fields below are drawn from the GISAID submission form, with description and mapping to the respective PHA4GE field should help you transfer your metadata from the PHA4GE table to the something acceptable for GISAID submission.

### Description of GISAID fields

| GISAID Batch Submission Headers (as of 2020-06-19) | GISAID Definition                                                                                                           | GISAID Requirement Status |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Submitter                                          | enter your GISAID-Username                                                                                                  | mandatory                 |
| FASTA filename                                     | the filename that contains the sequence without path (e.g. all_sequences.fasta not c:\users\meier\docs\all_sequences.fasta) | mandatory                 |
| Virus name                                         | e.g. hCoV-19/Netherlands/Gelderland-01/2020 (Must be FASTA-Header from the FASTA file all_sequences.fasta)                  | mandatory                 |
| Type                                               | default must remain "betacoronavirus"                                                                                       | mandatory                 |
| Passage details/history                            | e.g. Original, Vero                                                                                                         | mandatory                 |



|  |                                 |                                                                                                                                |           |
|--|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------|
|  | Collection date                 | Date in the format YYYY or YYYY-MM or YYYY-MM-DD                                                                               | mandatory |
|  | Location                        | e.g. Europe / Germany / Bavaria / Munich                                                                                       | mandatory |
|  | Additional location information | e.g. Cruise Ship, Convention, Live animal market                                                                               |           |
|  | Host                            | e.g. Human, Environment, Canine, Manis javanica, Rhinolophus affinis, etc                                                      | mandatory |
|  | Additional host information     | e.g. Patient infected while traveling in ....                                                                                  |           |
|  | Gender                          | Male, Female, or unknown                                                                                                       | mandatory |
|  | Patient age                     | e.g. 65 or 7 months, or unknown                                                                                                | mandatory |
|  | Patient status                  | e.g. Hospitalized, Released, Live, Deceased, or unknown                                                                        | mandatory |
|  | Specimen source                 | e.g. Sputum, Alveolar lavage fluid, Oro-pharyngeal swab, Blood, Tracheal swab, Urine, Stool, Cloakal swab, Organ, Feces, Other |           |
|  | Outbreak                        | Date, Location e.g. type of gathering, Family cluster, etc.                                                                    |           |
|  | Last vaccinated                 | provide details if applicable                                                                                                  |           |
|  | Treatment                       | Include drug name, dosage                                                                                                      |           |
|  | Sequencing technology           | e.g. Illumina Miseq, Sanger, Nanopore MinION, Ion Torrent, etc.                                                                | mandatory |
|  | Assembly method                 | e.g. CLC Genomics Workbench 12, Geneious 10.2.4, SPAdes/MEGAHIT v1.2.9, UGENE v. 33, etc.                                      |           |
|  | Coverage                        | e.g. 70x, 1,000x, 10,000x (average)                                                                                            |           |
|  | Originating lab                 | Where the clinical specimen or virus isolate was first obtained                                                                | mandatory |



|  |                                              |                                                                             |           |
|--|----------------------------------------------|-----------------------------------------------------------------------------|-----------|
|  | Address                                      |                                                                             | mandatory |
|  | Sample ID given by the sample provider       |                                                                             |           |
|  | Submitting lab                               | Where sequence data have been generated and submitted to GISAID             | mandatory |
|  | Address                                      |                                                                             | mandatory |
|  | Sample ID given by the submitting laboratory |                                                                             |           |
|  | Authors                                      | a comma separated list of Authors with complete First followed by Last Name |           |

Description of GISAID fields

#### PHA4GE guidance on GISAID submission fields.

|  | <b>GISAID Batch Submission Headers (as of 2020-06-19)</b> | <b>PHA4GE Field</b> | <b>PHA4GE Guidance</b>                                                          |
|--|-----------------------------------------------------------|---------------------|---------------------------------------------------------------------------------|
|  | Submitter                                                 | *user inputs        | The submitter must acquire an account and provide their username in this field. |
|  | FASTA filename                                            | fasta filename      | This field can                                                                  |



|  |            |         |                                                                                                                                                                                                                                                                                                                                                                           |
|--|------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |            |         | be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"fast<br>a<br>filen<br>ame<br>".                                                                                                                                                                                                                                                                              |
|  | Virus name | isolate | Whil<br>e<br>the<br>mea<br>ning<br>s<br>and<br>stru<br>ctur<br>es<br>of<br>the<br>GISA<br>ID<br>field<br>"Vir<br>us<br>nam<br>e"<br>and<br>the<br>PHA<br>4GE<br>field<br>"isol<br>ate"<br>overl<br>ap,<br>GISA<br>ID<br>requ<br>ires<br>a<br>sligh<br>tly<br>diffe<br>rent<br>stru<br>ctur<br>e for<br>Viru<br>s<br>nam<br>e.<br>e.g.<br>PHA<br>4GE<br>stru<br>ctur<br>e: |



|  |                            |                                                                        |                                                                                                                                                                                                                                                                              |
|--|----------------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                            |                                                                        | SAR<br>S-<br>CoV<br>-2/c<br>ount<br>ry/sa<br>ple<br>ID/20<br>20,<br>GISA<br>ID<br>stru<br>ctur<br>e:<br>hCoV-<br>19/c<br>ount<br>ry/sa<br>mple<br>ID/2<br>020.<br>Cha<br>nge<br>"SA<br>RS-<br>CoV<br>-2"<br>to<br>"hC<br>ov-<br>19"<br>in<br>the<br>isola<br>te<br>nam<br>e. |
|  | Type                       | *should always be<br>betacoronavirus                                   | Prov<br>ide<br>"bet<br>acor<br>onav<br>irus"<br>.                                                                                                                                                                                                                            |
|  | Passage<br>details/history | specimen processing;<br>lab host; passage<br>number; passage<br>method | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>s<br>"spe<br>cime<br>n<br>proc<br>essi                                                                                                                                                   |

|  |                 |                        |                                                                                                                                                                                                                                                                                                    |
|--|-----------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                 |                        | <p>ng",<br/>"lab<br/>host<br/>"<br/>"pas<br/>sage<br/>num<br/>ber"<br/>and<br/>"pas<br/>sage<br/>met<br/>hod"<br/>. If<br/>the<br/>infor<br/>mati<br/>on is<br/>unkn<br/>own<br/>or<br/>can<br/>not<br/>be<br/>shar<br/>ed,<br/>put<br/>"unk<br/>now<br/>n".</p>                                   |
|  | Collection date | sample collection date | <p>This<br/>field<br/>can<br/>be<br/>pop<br/>ulate<br/>d by<br/>the<br/>PHA<br/>4GE<br/>field<br/>"sa<br/>mple<br/>colle<br/>ction<br/>date<br/>".<br/>Caut<br/>ion:<br/>colle<br/>ction<br/>date<br/>may<br/>be<br/>cons<br/>ider<br/>ed<br/>publi<br/>c<br/>healt<br/>h<br/>ident<br/>ifiabl</p> |



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|  |                                 |                        | be used as a substitute in the data you share. The date should be provided in ISO 8601 standard format at "YY YY-MM-DD". |
|  | Location                        | geo_loc_name (country) | This field can be populated by the PHA 4GE field "geo_loc_name (country)".                                               |
|  | Additional location information | exposure event         | This field can be populated by the PHA 4GE field "exposure event".                                                       |



|  |                             |                        |                                                                                                                                                                                        |
|--|-----------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                             |                        | Caut ion: this may be sens itive infor mati on. Con sult the data stew ard befo re shari ng. If the infor mati on is unkn own or can not be shar ed, leav e blan k or put "unk now n". |
|  | Host                        | host (scientific name) | This field can be pop ulate d by the PHA 4GE field "hos t (scie ntific nam e)".                                                                                                        |
|  | Additional host information | N/A                    | If the infor mati                                                                                                                                                                      |

|  |        |             |                                                                                                                                                                                                                                                                                                                                                                                    |
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|  |        |             | on is<br>unkn<br>own<br>or<br>can<br>not<br>be<br>shar<br>ed,<br>leav<br>e<br>blan<br>k.                                                                                                                                                                                                                                                                                           |
|  | Gender | host gender | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"hos<br>t<br>gen<br>der".<br>Caut<br>ion:<br>the<br>host<br>gen<br>der<br>may<br>be<br>cons<br>ider<br>ed<br>publi<br>c<br>healt<br>h<br>ident<br>ifiabl<br>e<br>infor<br>mati<br>on.<br>Con<br>sult<br>the<br>data<br>stew<br>ard<br>befo<br>re<br>shari<br>ng.<br>If<br>the<br>infor<br>mati |



|  |             |          |                                                                                                                                                                                                                                                                                                                                                                          |
|--|-------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |             |          | on is<br>unkn<br>own<br>or<br>can<br>not<br>be<br>shar<br>ed,<br>put<br>"unk<br>now<br>n".                                                                                                                                                                                                                                                                               |
|  | Patient age | host age | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"hos<br>t<br>age"<br>. Prov<br>ide<br>age<br>in<br>year<br>s.<br>Age-<br>binni<br>ng is<br>not<br>acce<br>pted<br>. Caut<br>ion:<br>the<br>host<br>age<br>may<br>be<br>cons<br>ider<br>ed<br>publi<br>c<br>healt<br>h<br>ident<br>ifiabl<br>e<br>infor<br>mati<br>on.<br>Con<br>sult |



|  |                 |                                                                                           |                                                                                                                                      |
|--|-----------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
|  |                 |                                                                                           | the data steward and before sharing. If the information is unknown or cannot be shared, put "unknown".                               |
|  | Patient status  | host health state                                                                         | This field can be populated by PHA 4GE field "host health state". If the information is unknown, or cannot be shared, put "unknown". |
|  | Specimen source | anatomical material; anatomical part; body product; environmental material; environmental | This field can be pop                                                                                                                |

|  |  |                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--|--|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | site; collection device;<br>collection method | ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>s<br>"ana<br>tomi<br>cal<br>mate<br>rial",<br>"ana<br>tomi<br>cal<br>part<br>"<br>"bod<br>y<br>prod<br>uct",<br>"env<br>iron<br>men<br>tal<br>mate<br>rial",<br>"env<br>iron<br>men<br>tal<br>site",<br>"coll<br>ectio<br>n<br>devi<br>ce"<br>and<br>"coll<br>ectio<br>n<br>met<br>hod"<br>.<br>Sep<br>arat<br>e<br>the<br>valu<br>es<br>usin<br>g<br>semi<br>-<br>colo<br>ns. If<br>the<br>infor<br>mati<br>on is<br>unkn<br>own<br>or<br>can |
|--|--|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|  |                 |     |                                                                 |
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|  |                 |     | not be shared, leave blank or put "unknown".                    |
|  | Outbreak        | N/A | If the information is unknown or cannot be shared, leave blank. |
|  | Last vaccinated | N/A | If the information is unknown or cannot be shared, leave blank. |
|  | Treatment       | N/A | If the information is unknown or cannot be shared, leave        |



|  |                          |                              |                                                                                                                                                                                                                                                             |
|--|--------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                          |                              | e<br>blan<br>k.                                                                                                                                                                                                                                             |
|  | Sequencing<br>technology | sequencing instrument        | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"seq<br>uenc<br>ing<br>instr<br>ume<br>nt".<br>If<br>the<br>infor<br>mati<br>on is<br>unkn<br>own<br>or<br>can<br>not<br>be<br>shar<br>ed,<br>put<br>"unk<br>now<br>n". |
|  | Assembly<br>method       | consensus sequence<br>method | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"con<br>sens<br>us<br>sequ<br>ence<br>met<br>hod"<br>. If<br>the<br>infor<br>mati<br>on is<br>unkn<br>own                                                               |



|  |                 |                            |                                                                                                                                                                                                                                                                                            |
|--|-----------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                 |                            | or<br>can<br>not<br>be<br>shar<br>ed,<br>leav<br>e<br>blan<br>k or<br>put<br>"unk<br>now<br>n".                                                                                                                                                                                            |
|  | Coverage        | assembly coverage<br>depth | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"ass<br>embl<br>y<br>cove<br>rage<br>dept<br>h". If<br>the<br>infor<br>mati<br>on is<br>unkn<br>own<br>or<br>can<br>not<br>be<br>shar<br>ed,<br>leav<br>e<br>blan<br>k or<br>put<br>"unk<br>now<br>n". |
|  | Originating lab | sample collected by        | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE                                                                                                                                                                                                                    |

|  |  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  |  |  | field<br>"sa<br>mple<br>colle<br>cted<br>by".<br>Caut<br>ion:<br>if<br>the<br>nam<br>e of<br>the<br>lab<br>reve<br>als<br>geo<br>grap<br>hic<br>infor<br>mati<br>on,<br>this<br>may<br>be<br>cons<br>ider<br>ed<br>publi<br>c<br>healt<br>h<br>ident<br>ifiabl<br>e<br>infor<br>mati<br>on.<br>Con<br>sult<br>the<br>data<br>stew<br>ard<br>befo<br>re<br>shari<br>ng.<br>If<br>the<br>infor<br>mati<br>on is<br>unkn<br>own<br>or<br>can<br>not<br>be<br>shar<br>ed,<br>leav<br>e<br>blan |
|--|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|



|  |                                              |                                     |                                                                                                                                                                                                                                                                                         |
|--|----------------------------------------------|-------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                                              |                                     | k or<br>put<br>"unk<br>now<br>n".                                                                                                                                                                                                                                                       |
|  | Address                                      | sample collector<br>contact address | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"sa<br>mple<br>colle<br>ctor<br>cont<br>act<br>addr<br>ess".                                                                                                                                        |
|  | Sample ID given<br>by the sample<br>provider | specimen collector<br>sample ID     | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"spe<br>cime<br>n<br>colle<br>ctor<br>sam<br>ple<br>ID".<br>Caut<br>ion:<br>the<br>sam<br>ple<br>ID<br>may<br>be<br>cons<br>ider<br>ed<br>publi<br>c<br>healt<br>h<br>ident<br>ifiabl<br>e<br>infor |



|  |                |                       |                                                                                                                                                                                                                                                                                      |
|--|----------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |                |                       | mati<br>on.<br>Con<br>sult<br>your<br>data<br>stew<br>ard<br>befo<br>re<br>shari<br>ng.<br>You<br>may<br>nee<br>d to<br>provi<br>de<br>an<br>alter<br>nativ<br>e ID.                                                                                                                 |
|  | Submitting lab | sequence submitted by | This<br>field<br>can<br>be<br>pop<br>ulate<br>d by<br>the<br>PHA<br>4GE<br>field<br>"seq<br>uenc<br>e<br>sub<br>mitte<br>d<br>by".<br>If<br>infor<br>mati<br>on is<br>unkn<br>own<br>or<br>can<br>not<br>be<br>shar<br>ed,<br>leav<br>e<br>blan<br>k or<br>put<br>"unk<br>now<br>n". |



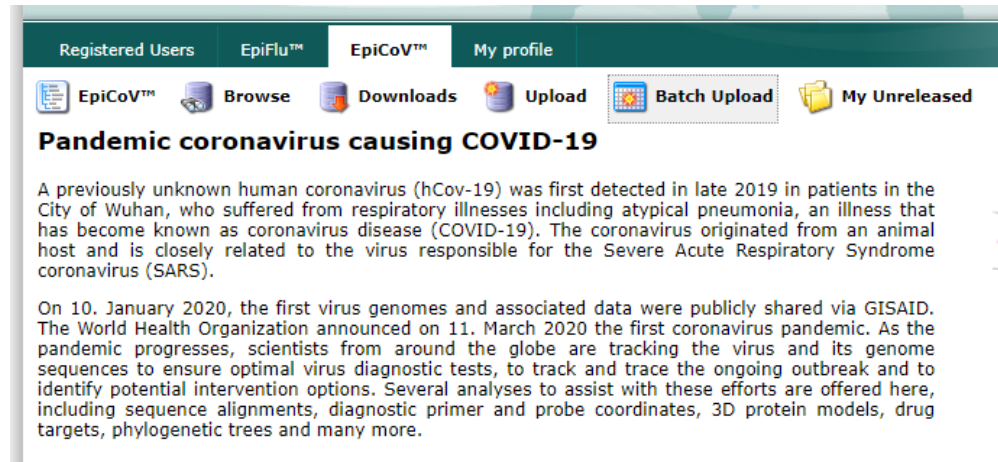
|  |                                              |                                    |                                                                                                                                                                     |
|--|----------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | Address                                      | sequence submitter contact address | This field can be populated by the PHA 4GE field "sequence submitter contact address". If information is unknown or cannot be shared, leave blank or put "unknown". |
|  | Sample ID given by the submitting laboratory | consensus sequence ID              | This field can be populated by the PHA 4GE field "consensus sequence ID". If information is                                                                         |

|  |         |         |                                                                                                                                                  |
|--|---------|---------|--------------------------------------------------------------------------------------------------------------------------------------------------|
|  |         |         | unknown or cannot be shared, leave blank or put "unknown".                                                                                       |
|  | Authors | authors | This field can be populated by the PHA4GE required field "authors". If information is unknown or cannot be shared, leave blank or put "unknown". |

PHA4GE guidance on GISAID submission fields.

## 2 Uploading single samples

You can upload single sample through a web form shown below.



Registered Users EpiFlu™ **EpiCoV™** My profile

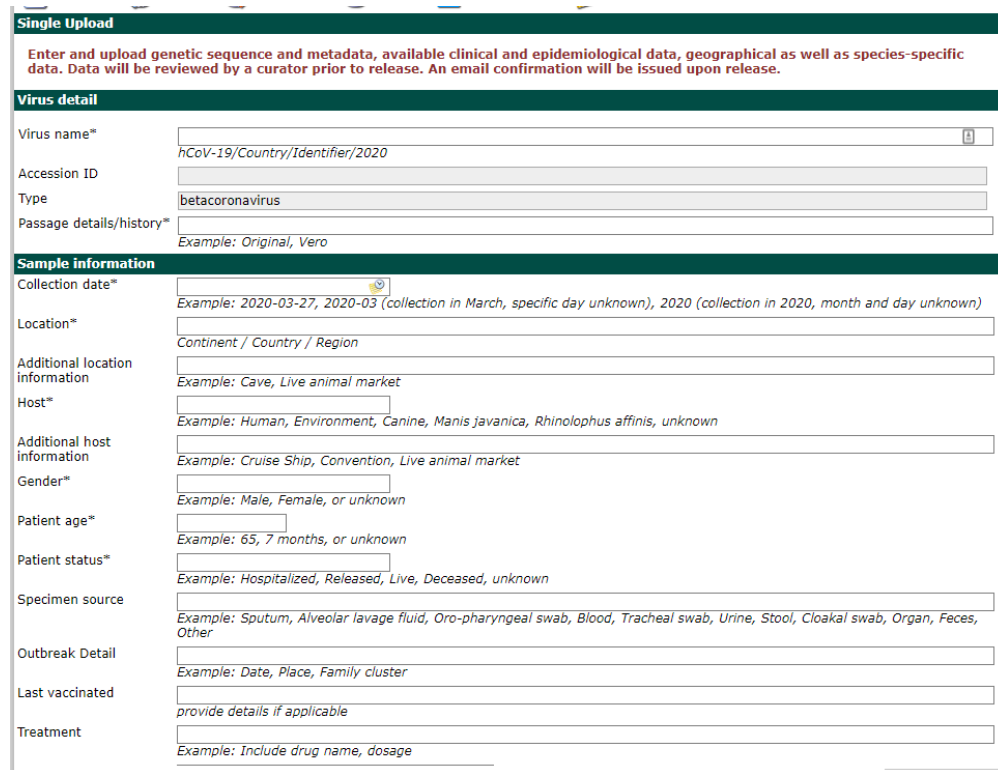
EpiCoV™ Browse Downloads Upload Batch Upload My Unreleased

### Pandemic coronavirus causing COVID-19

A previously unknown human coronavirus (hCov-19) was first detected in late 2019 in patients in the City of Wuhan, who suffered from respiratory illnesses including atypical pneumonia, an illness that has become known as coronavirus disease (COVID-19). The coronavirus originated from an animal host and is closely related to the virus responsible for the Severe Acute Respiratory Syndrome coronavirus (SARS).

On 10. January 2020, the first virus genomes and associated data were publicly shared via GISAID. The World Health Organization announced on 11. March 2020 the first coronavirus pandemic. As the pandemic progresses, scientists from around the globe are tracking the virus and its genome sequences to ensure optimal virus diagnostic tests, to track and trace the ongoing outbreak and to identify potential intervention options. Several analyses to assist with these efforts are offered here, including sequence alignments, diagnostic primer and probe coordinates, 3D protein models, drug targets, phylogenetic trees and many more.

GISAID dashboard once you've logged in.



**Single Upload**

Enter and upload genetic sequence and metadata, available clinical and epidemiological data, geographical as well as species-specific data. Data will be reviewed by a curator prior to release. An email confirmation will be issued upon release.

**Virus detail**

Virus name\*

Accession ID

Type

Passage details/history\*

**Sample information**

Collection date\*

Location\*

Additional location information

Host\*

Additional host information

Gender\*

Patient age\*

Patient status\*

Specimen source

Outbreak Detail

Last vaccinated

Treatment

Submission form for single samples

### 3 Uploading multiple samples (Batch upload)

You must first explicitly request the batch upload feature from the curators. This will give you access to the batch upload page. Here you can upload multiple samples (metadata and sequences). There is a link to detailed documentation and templates at the bottom left.



EpiCoV™BrowseDownloadsUploadBatch UploadMy Unreleased

**GISAID hCoV-19 Batch Upload**

Upload genetic sequence as single FASTA-File and metadata, available clinical and epidemiological data, geographical as well as species-specific data as XLS. Data will be reviewed by a curator prior to release. An email confirmation will be issued upon release.

Metadata as Excel\*

max size: 5MChoose FileNo file chosen

Sequences as FASTA\*

max size: 32MChoose FileNo file chosen

Report

Upload XLS and FASTA.

Download Instructions and Template

Check and Submit

Batch upload page