



Apr 09, 2021

# SARS-CoV-2 NCBI submission workflow + guidance for structuring and releasing metadata

Ruth E Timme<sup>1</sup>, Emma Griffiths<sup>2</sup><sup>1</sup>US Food and Drug Administration; <sup>2</sup>Simon Fraser University

In Development

[dx.doi.org/10.17504/protocols.io.bsypnfvn](https://dx.doi.org/10.17504/protocols.io.bsypnfvn)

GenomeTrakr

StaPH-B

1 more workspace



Ruth Timme

US Food and Drug Administration

## ABSTRACT

### PURPOSE:

**This workflow provides an overview on the metadata specification recommend for SARS-CoV-2 sequence data and a series of protocols outlining the steps for NCBI submission.**

### PHA4GE Contextual Metadata SOP:

- This protocol provides step-by-step instructions for populating the template, and also addresses a number of ethical, privacy and practical considerations that should be discussed with your data steward prior to any type of data sharing.
- The appendices provide additional instructions and examples of how to curate sample type descriptions, and how to identify additional standardized terms should you need them.

### Overview of NCBI's submission process and the metadata required:

- Provides an overview of the submission process and includes a brief training video.

### SARS-CoV-2 NCBI submission protocol: SRA, BioSample, and BioProject

- Step-by-step instructions for establishing a new NCBI laboratory submission account and for creating and linking a new BioProject to an existing umbrella effort.
- SARS-CoV-2 raw data submission to SRA (Sequence Read Archive) and metadata to BioSample.

### SARS-CoV-2 NCBI consensus submission protocol: GenBank

*Required:* established BioProject and BioSamples

- Submit SARS-CoV-2 assemblies to NCBI GenBank, linking to existing BioProject, BioSamples, and raw data.

## DOI

[dx.doi.org/10.17504/protocols.io.bsypnfvn](https://dx.doi.org/10.17504/protocols.io.bsypnfvn)

## COLLECTION CITATION

Ruth E Timme, Emma Griffiths 2021. SARS-CoV-2 NCBI submission workflow + guidance for structuring and releasing metadata. **protocols.io**  
<https://dx.doi.org/10.17504/protocols.io.bsypnfvn>



## KEYWORDS

SARS-CoV-2, NCBI, submission, genomic epidemiology, SRA, Biosample

## LICENSE

— This is an open access collection distributed under the terms of the [Creative Commons Attribution License](https://creativecommons.org/licenses/by/4.0/), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

CREATED

Mar 03, 2021

LAST MODIFIED

Apr 09, 2021

COLLECTION INTEGER ID

47855

ABSTRACT

**PURPOSE:**

**This workflow provides an overview on the metadata specification recommend for SARS-CoV-2 sequence data and a series of protocols outlining the steps for NCBI submission.**

**PHA4GE Contextual Metadata SOP:**

- This protocol provides step-by-step instructions for populating the template, and also addresses a number of ethical, privacy and practical considerations that should be discussed with your data steward prior to any type of data sharing.
- The appendices provide additional instructions and examples of how to curate sample type descriptions, and how to identify additional standardized terms should you need them.

**Overview of NCBI's submission process and the metadata required:**

- Provides an overview of the submission process and includes a brief training video.

**SARS-CoV-2 NCBI submission protocol: SRA, BioSample, and BioProject**



- Step-by-step instructions for establishing a new NCBI laboratory submission account and for creating and linking a new BioProject to an existing umbrella effort.
- SARS-CoV-2 raw data submission to SRA (Sequence Read Archive) and metadata to BioSample.



**SARS-CoV-2 NCBI consensus submission protocol: GenBank**



*Required:* established BioProject and BioSamples



- Submit SARS-CoV-2 assemblies to NCBI GenBank, linking to existing BioProject, BioSamples, and raw data.

FILES

 PHA4GE contextual metadata SOP  
**Version 1**  
by Ruth Timme, US Food and Drug Administration

 Overview of NCBI's submission process and the metadata required  
**Version 2**  
by Ruth Timme, US Food and Drug Administration

 SARS-CoV-2 NCBI submission protocol: SRA, BioSample, and BioProject  
**Version 2**  
by Ruth Timme, US Food and Drug Administration

 SARS-CoV-2 NCBI consensus submission protocol: GenBank  
**Version 2**  
by Ruth Timme, US Food and Drug Administration