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# Uploading Data Files to Terra

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Uploading data to Terra.bio is an essential step in the protocol for analyzing locally stored genomic sequencing data. The Terra.bio uploads page allows users to easily organize their data files using an associated metadata file via a browser-based graphical user interface. This protocol explains the process to prepare the data files and the associated metadata file for upload, and provides the link to the Terra.bio uploads page.

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#### Upload Data Files

Navigate to the Terra.bio <u>uploads page</u>.

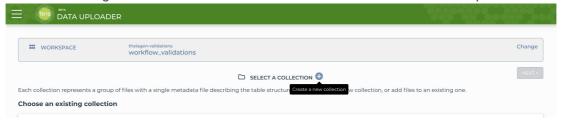




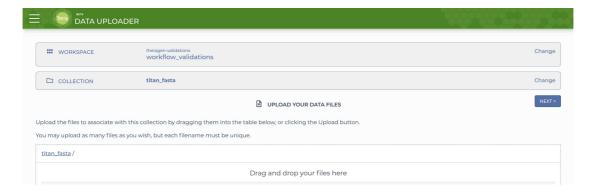
Select an existing workspace or create the workspace where the data will be uploaded. If there are no workspaces created under the billing project associated with this account please reach out to support@theiagen.com and we will facilitate the creation of a workspace preloaded with workflows to perform the analyses needed to meet any variety of research objectives.



3 Select an existing collection or create the collection where the data will be uploaded.



4 Drag and drop files into the indicated region of the page (or use the file browser by selecting the plus button in the bottom right hand of the window).



Then click 'NEXT'

## Upload Metadata File

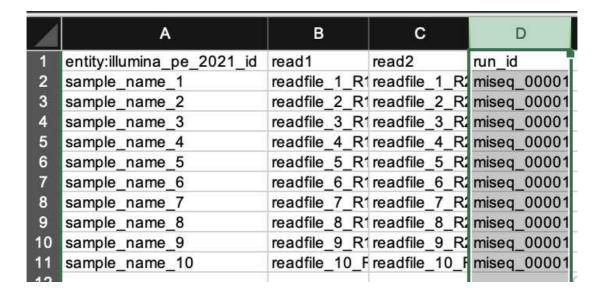
5 Using the sample names and file names of the the files that have been uploaded to Terra, create a spreadsheet of this "metadata" to upload to Terra as well.

Cell A1 defines the root entity. This will be the name of the table where the data is stored in Terra. The root entity is defined using the "entity:" notation and must end with "\_id".

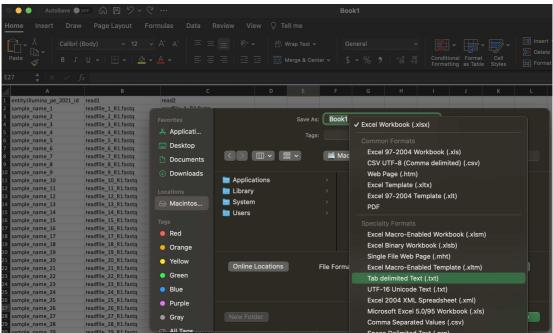
A1			
4	Α	В	С
1	entity:illumina_pe_2021_id	read1	read2
2	sample_name_1	readfile_1_R1.fastq	readfile_1_R2.fastq
3	sample_name_2	readfile_2_R1.fastq	readfile_2_R2.fastq
4	sample_name_3	readfile_3_R1.fastq	readfile_3_R2.fastq
5	sample_name_4	readfile_4_R1.fastq	readfile_4_R2.fastq
6	sample_name_5	readfile_5_R1.fastq	readfile_5_R2.fastq
7	sample_name_6	readfile_6_R1.fastq	readfile_6_R2.fastq
8	sample_name_7	readfile_7_R1.fastq	readfile_7_R2.fastq
9	sample_name_8	readfile_8_R1.fastq	readfile_8_R2.fastq
10	sample_name_9	readfile_9_R1.fastq	readfile_9_R2.fastq
11	sample_name_10	readfile_10_R1.fastq	readfile_10_R2.fastq

The file names in the spreadsheet should match the file names of the files that were uploaded in the previous section.

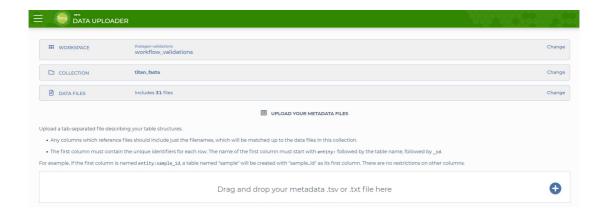
\*NOTE: It is best practices to include the run\_id of each sample in an addition column:



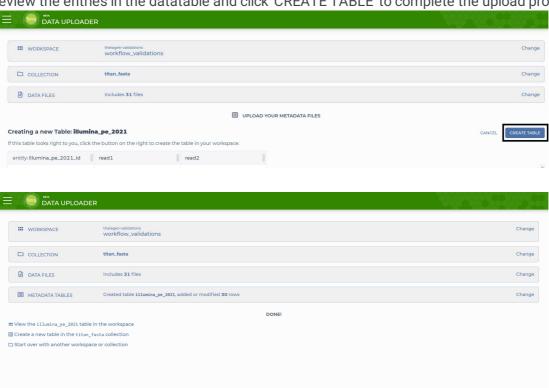
6 Save the file as a tab delimited text file:



7 Drag and drop the metadata file into the indicated region of the page (or use the file browser by selecting the plus button in the bottom right hand of the window).



Review the entries in the datatable and click 'CREATE TABLE' to complete the upload process



If you experience any issues during this process please reach out to our support email: support@terrapublichealth.zendesk.com

If video is your preferred medium of support check out our youtube video on uploading paired end sequencing data to Terra.bio:

https://youtu.be/DTU4rON0ycl