

EDD  
Study

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OPEN ACCESS



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**External link:** <https://public-edd.agilebiofoundry.org/>

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**MANUSCRIPT CITATION:** Morrell, William C., et al. "The experiment data depot: a web-based software tool for biological experimental data storage, sharing, and visualization." ACS synthetic biology 6.12 (2017): 2248-2259.

## Experiment Data Depot (EDD) Study Creation

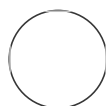
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[1 more workspace](#) ↓



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**Protocol status:** Working  
We use this protocol and it's working

**Created:** Jan 04, 2021

**Last Modified:** Jan 09, 2024

**PROTOCOL integer ID:**  
45987

**Keywords:** EDD, Metadata, Synthetic Biology, Experiment Data Depot, Metabolic Engineering, REST API

## ABSTRACT

This protocol details how to create studies in the Experiment Data Depot. Data can be shared with collaborators via exported CSV files or through the REST API.

For more information about the EDD visit: [Experiment Data Depot Google Site](#).

Citation:

Morrell, William C., et al. "The experiment data depot: a web-based software tool for biological experimental data storage, sharing, and visualization." ACS synthetic biology 6.12 (2017): 2248-2259. ([link to publication](#))

Example Links:

<https://public-edd.agilebiofoundry.org/>

<https://public-edd.agilebiofoundry.org/s/example-data-quality-study-2/overview/>

## GUIDELINES

Line Name: Line name should only have dash (-), underscore (\_), or space ( ).

Part ID: Make sure that your ICE registry part ID number is accessible to collaborators and that it is a strain, not a plasmid.

## MATERIALS

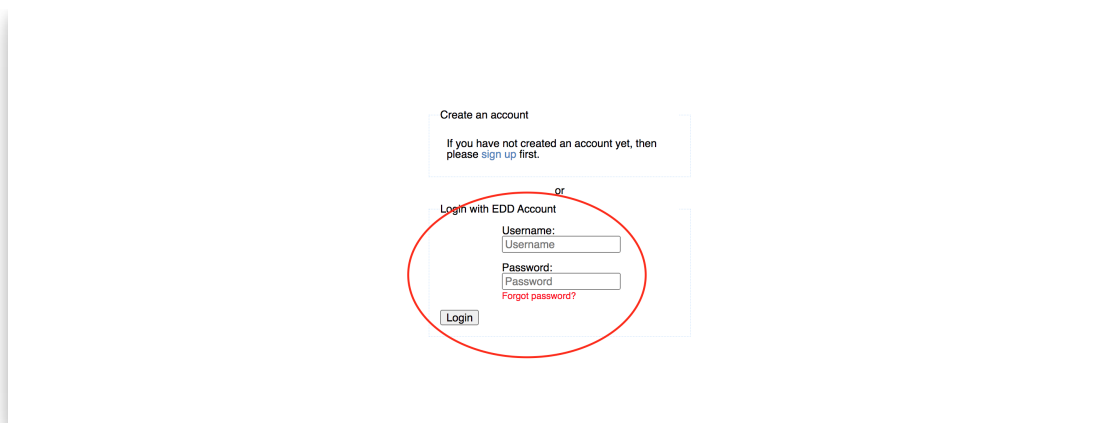
Example study description file:

 Example sample\_experiment\_description.xlsx

- 1 Go to the appropriate EDD for your project (e.g., [public-edd.agilebiofoundry.org](#)). Login with your username and credentials.

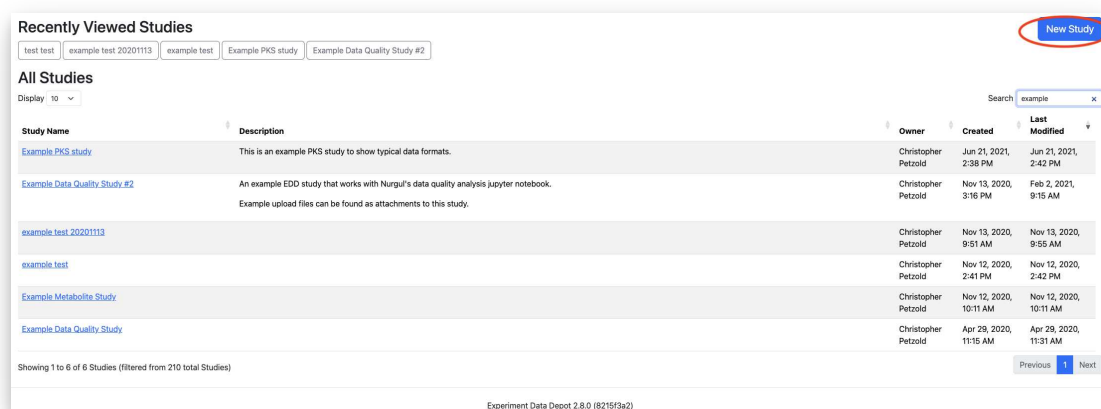
### Note

For LBNL researchers and affiliates, the EDD can be accessed with your LDAP credentials.



## Login page

- 2 Click on the **New Study** button on the top right.



- 3 In the **Add New Study** pop-up window, type in your **Study Name** and **Contact**. Click **Add Study** button.

Study Name

Description

Contact

Add Study

Experiment Data Depot 2.8.0 (8215f3a2)

- 4 On the **Overview** page, click on the **Example File** link in the center box to download a sample experiment description example file. Use this as a template file to fill out your sample experimental conditions. Or, you can click on the **Enter Manually** button to type in your sample experimental conditions, one by one.

test test

No description set.

Contact Christopher Petzold

An experiment description file is an Excel file that describes your experiment: which strains you are using (part ID from ICE), how they are being cultured (lines and metadata), the procedure for processing samples (protocol), and which samples are being taken (assays).  
[Click here for column options](#)

Drop file here to upload. [Help](#)

Line Name	Part ID	Line Description	Media	Seeding	Seeding	Culture	Flask	Sevent	Replicate
Count				Count	Volume	Volume		Temperature	Count
181F	JBx_00207	Describe your line	LB	1	100	500	250	300	3
181F	JBx_00207	Describe your line	LB	1	100	500	250	300	3

Example File

Add Line Combo's

Enter Manually

Browse for file

Permissions

Who	Level	Actions
Christopher Petzold	Write	<div><div></div><div></div></div>

User or Group

Access Level

None

Set Access

Cancel

Attachments (0)

Comments (0)

Manage Study

Experiment Data Depot 2.8.0 (8215/3a2)

A	B	C	D	E
Line Name	Line Description	Part ID	Media	Replicate Count
181-aceF	Describe your line	JBx_002078	LB	3

Sample Experiment Description Example File

 Example sample\_experiment\_description.xlsx

## Note

**Line Name:** Line name should only have dash (-) or underscore (\_). While spaces ( ) are not forbidden, they cause issues with various data processing workflows, so spaces should be avoided.

**Part ID:** If you are including Part IDs, make sure that your strains are shared in the ICE that corresponds to the EDD you are using.

**Part ID:** Make sure that your ICE part # is accessible to collaborators and that it is a strain, not a plasmid.

**Replicate Count:** Replicate count of 3 adds **-R1**, **-R2**, and **-R3**. to the end of the Line Name, so additional replicate metadata is unnecessary.

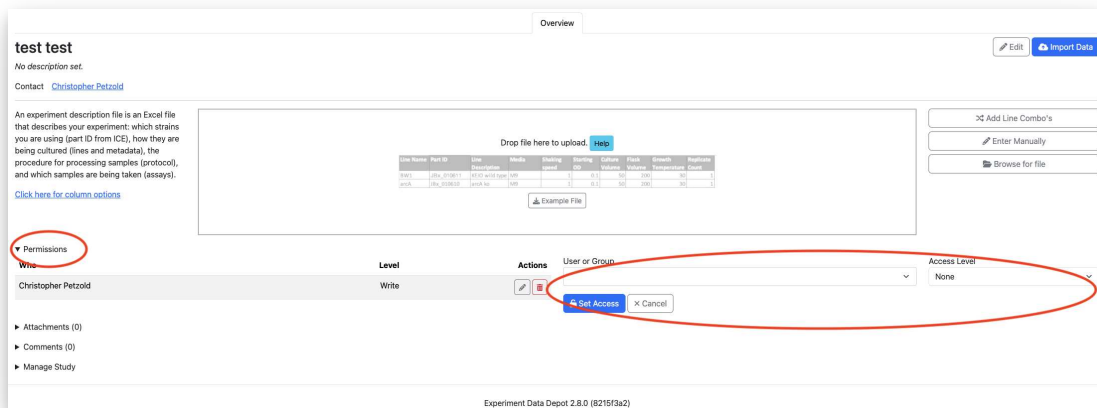
For more information about the Experiment Description files, click on the help button on the top right of the grey box or <https://public-edd.agilebiofoundry.org/describe/help/>.

## 5 Drag-and-drop the **Sample Experiment Description Example File** into the dropzone on the **Overview** page.

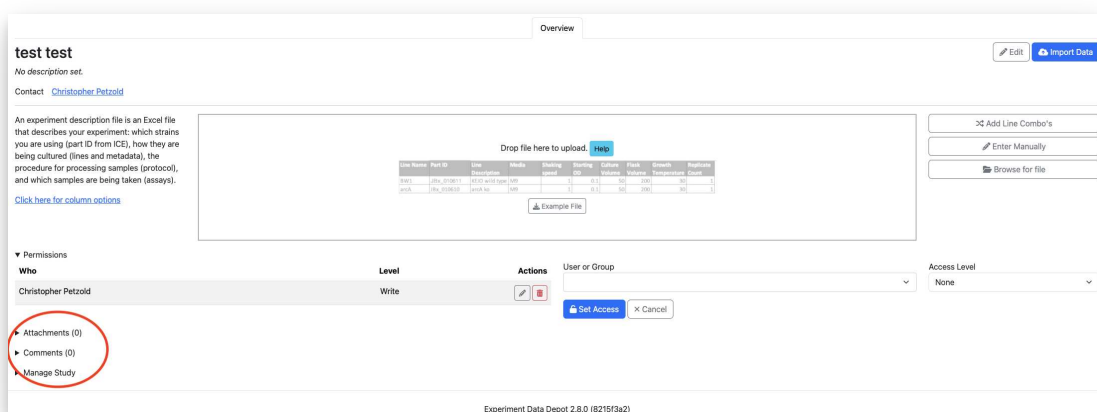
The screenshot shows the 'Overview' page for an experiment titled 'test test'. The page includes a description field, a table of columns, and a permissions section. A red circle highlights the 'Drop file here to upload.' area.

Line Name	Part ID	Line Description	Media	Quantity	Timing	Culture	Read	Sequenced	Replicate Count
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

## 6 Click on **Permissions** to allow collaborators to **Read** or **Write** data in the study.



7 Click on **Attachments** to attach files to the study.



8 Once you have acquired the data, go to the [EDD Data Import protocol](#) to import data into the EDD study.