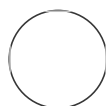# Experiment Data Depot (EDD) Study Creation

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| LBNL omics | Agile BioFoundry | **1 more workspace** ↓ |

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## DISCLAIMER

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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.
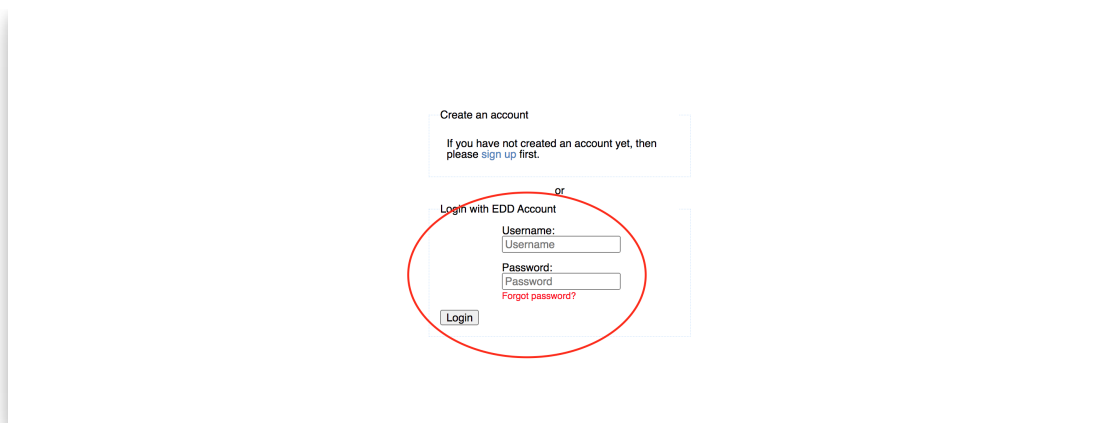
MATERIALS

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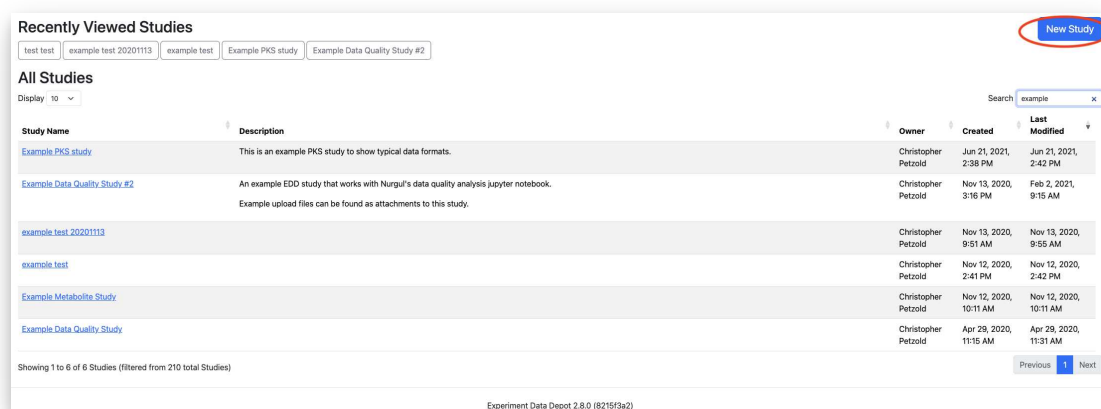
> **Note**
>
> For LBNL researchers and affiliates, the EDD can be accessed with your LDAP credentials.

**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.

**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.



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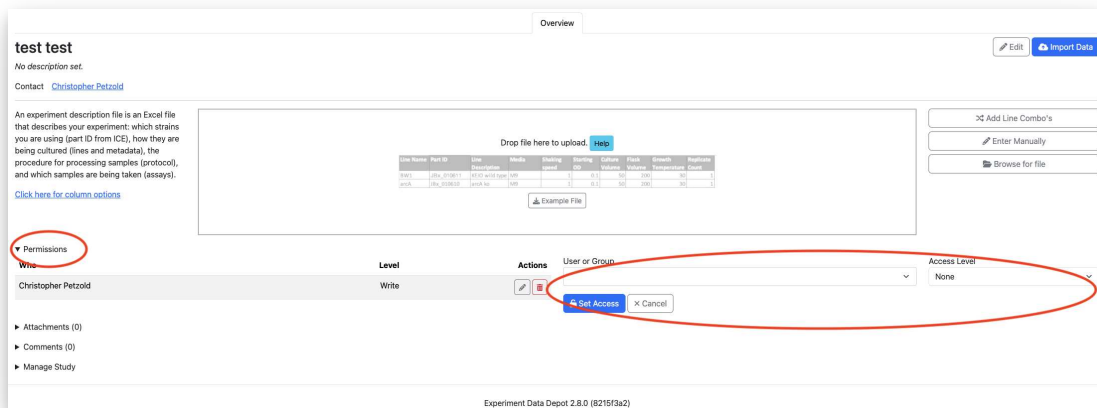>
> For more information about the Experiment Description files, click on the help button on the top right of the grey box or  https://public-edd.agilebiofoundry.org/describe/help/.

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



**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.
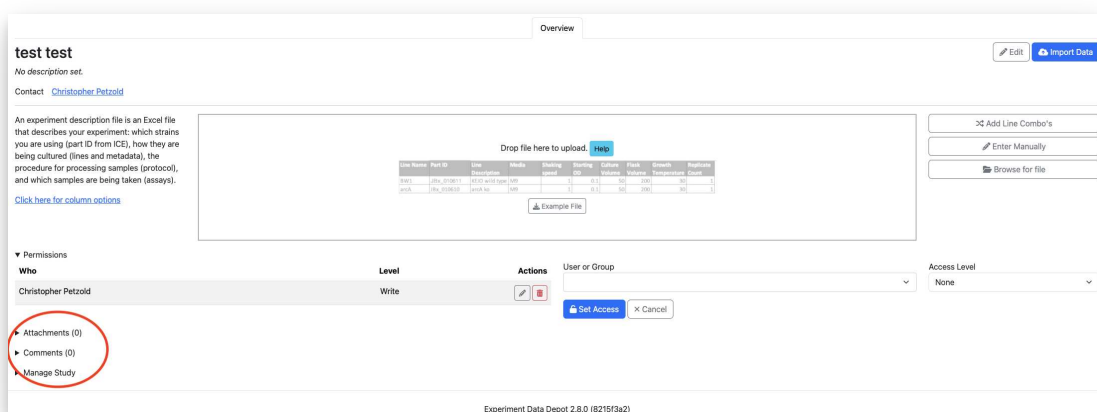


8    Once you have acquired the data, go to the EDD Data Import protocol to import data into the EDD study.