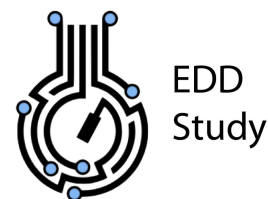


Jan 10, 2024

🌐 Experiment Data Depot (EDD) Study Creation

DOI

<https://dx.doi.org/10.17504/protocols.io.n2bvjxn4xlk5/v1>



Jennifer Gin¹, Christopher Petzold¹

¹Lawrence Berkeley National Laboratory

LBNL omics

Agile BioFoundry

1 more workspace



Jennifer Gin

Lawrence Berkeley National Laboratory

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.n2bvjxn4xlk5/v1>

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

Protocol Citation: Jennifer Gin, Christopher Petzold 2024. Experiment Data Depot (EDD) Study Creation. **protocols.io** <https://dx.doi.org/10.17504/protocols.io.n2bvjxn4xlk5/v1>

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.

License: This is an open access protocol distributed under the terms of the **Creative Commons Attribution License**, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this protocol and it's working

Created: January 05, 2021

Last Modified: January 10, 2024

Protocol Integer ID: 45987

Keywords: EDD, Metadata, Synthetic Biology, Experiment Data Depot, Metabolic Engineering, REST API, experiment data depot, studies in the experiment data depot, software tool for biological experimental data storage, experiment data depot google site, biological experimental data storage, study creation this protocol detail, based software tool, data, more information about the edd visit, acs synthetic biology, study creation, edd visit, data quality, synthetic biology, study, edd, csv file, publication, protocol detail, collaborator, visualization

Disclaimer

DISCLAIMER – FOR INFORMATIONAL PURPOSES ONLY; USE AT YOUR OWN RISK

The protocol content here is for informational purposes only and does not constitute legal, medical, clinical, or safety advice, or otherwise; content added to **protocols.io** is not peer reviewed and may not have undergone a formal approval of any kind. Information presented in this protocol should not substitute for independent professional judgment, advice, diagnosis, or treatment. Any action you take or refrain from taking using or relying upon the information presented here is strictly at your own risk. You agree that neither the Company nor any of the authors, contributors, administrators, or anyone else associated with **protocols.io**, can be held responsible for your use of the information contained in or linked to this protocol or any of our Sites/Apps and Services.



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_descr...



- 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.

Create an account

If you have not created an account yet, then please sign up first.

or

Login with EDD Account

Username:

Password:

[Forgot password?](#)

Login page

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

Recently Viewed Studies

test test example test 20201113 example test Example PKS study Example Data Quality Study #2

All Studies

Display 10 ▾

Search example X

Study Name	Description	Owner	Created	Last Modified
Example PKS study	This is an example PKS study to show typical data formats.	Christopher Petzold	Jun 21, 2021, 2:38 PM	Jun 21, 2021, 2:42 PM
Example Data Quality Study #2	An example EDD study that works with Nargui's data quality analysis jupyter notebook. Example upload files can be found as attachments to this study.	Christopher Petzold	Nov 13, 2020, 3:16 PM	Feb 2, 2021, 9:15 AM
example test 20201113		Christopher Petzold	Nov 13, 2020, 9:51 AM	Nov 13, 2020, 9:55 AM
example test		Christopher Petzold	Nov 12, 2020, 2:41 PM	Nov 12, 2020, 2:43 PM
Example Metabolite Study		Christopher Petzold	Nov 12, 2020, 10:11 AM	Nov 12, 2020, 10:11 AM
Example Data Quality Study		Christopher Petzold	Apr 29, 2020, 11:15 AM	Apr 29, 2020, 11:31 AM

Showing 1 to 6 of 6 Studies (filtered from 210 total Studies)

Previous 1 Next

Experiment Data Depot 2.8.0 (8216f9a2)

- 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.

test test
Overview

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 (protocols), and which samples are being taken (assays).

[Click here for column options](#)

Drop file here to upload [help](#)

File Name	Part ID	Line	Strains	Culture	Assay	Columns	Files	Growth	Substrates
0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101	0101_0101_0101

[Example File](#)

3d Add Line Combo's

▼ Permissions
Level
Actions
User or Group
Access Level

Who	Level	Actions	User or Group	Access Level
Christopher Petzold	Write		[dropdown]	None [dropdown]

Set Access

Cancel

► Attachments (0)

► Comments (0)

► Manage Study

Experiment Data Depot 2.8.0 (8215f362)

	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_descr...

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.

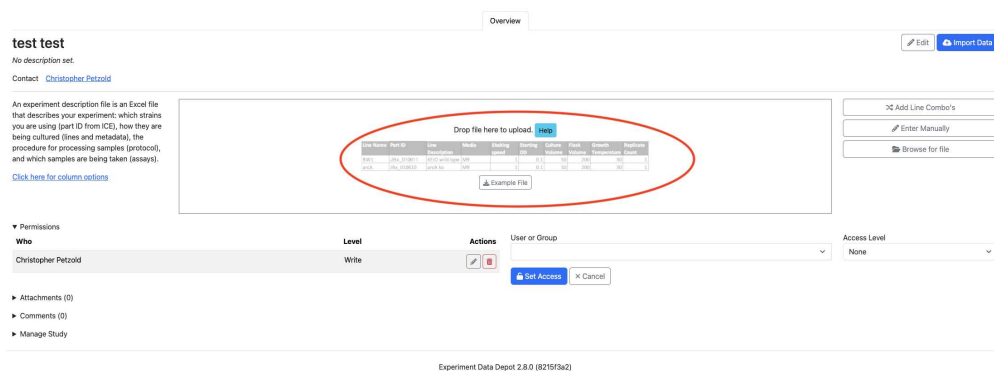
Part ID: If you are including Part IDs, make sure that your strains are shared in the ICE that corresponds to the EDD you are using.

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.

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 Number	Part ID	Line	Protocol	Media	Seeding	Seeding	Culture	Fluid	Growth	Experiments	Card
1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1
1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1
1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1

[Example File](#)

Permissions

Who	Level	Actions	User or Group	Access Level
Christopher Petzold	Write	Set Access Cancel		None

Attachments (0)
Comments (0)
Manage Study

Experiment Data Depot 2.8.0 (821513a2)

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

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 Number	Part ID	Line	Protocol	Media	Seeding	Seeding	Culture	Fluid	Growth	Experiments	Card
1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1001	1
1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1002	1
1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1

[Example File](#)

Attachments

Who	Level	Actions	User or Group	Access Level
Christopher Petzold	Write	Set Access Cancel		None

Comments (0)
Manage Study

Experiment Data Depot 2.8.0 (821513a2)

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