

# COPO

VISUAL DOCUMENTATION FOR  
MANIFEST SUBMISSION

Collaborative OPen Omics  
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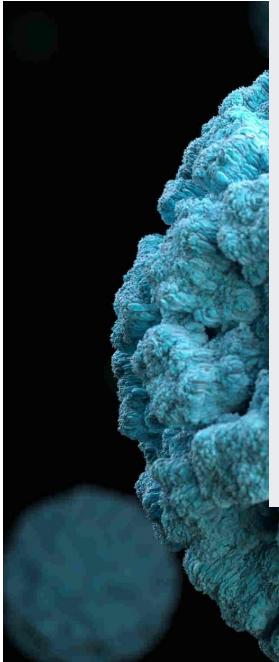
 Earlham  
Institute  
Decoding Living Systems



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Slide #

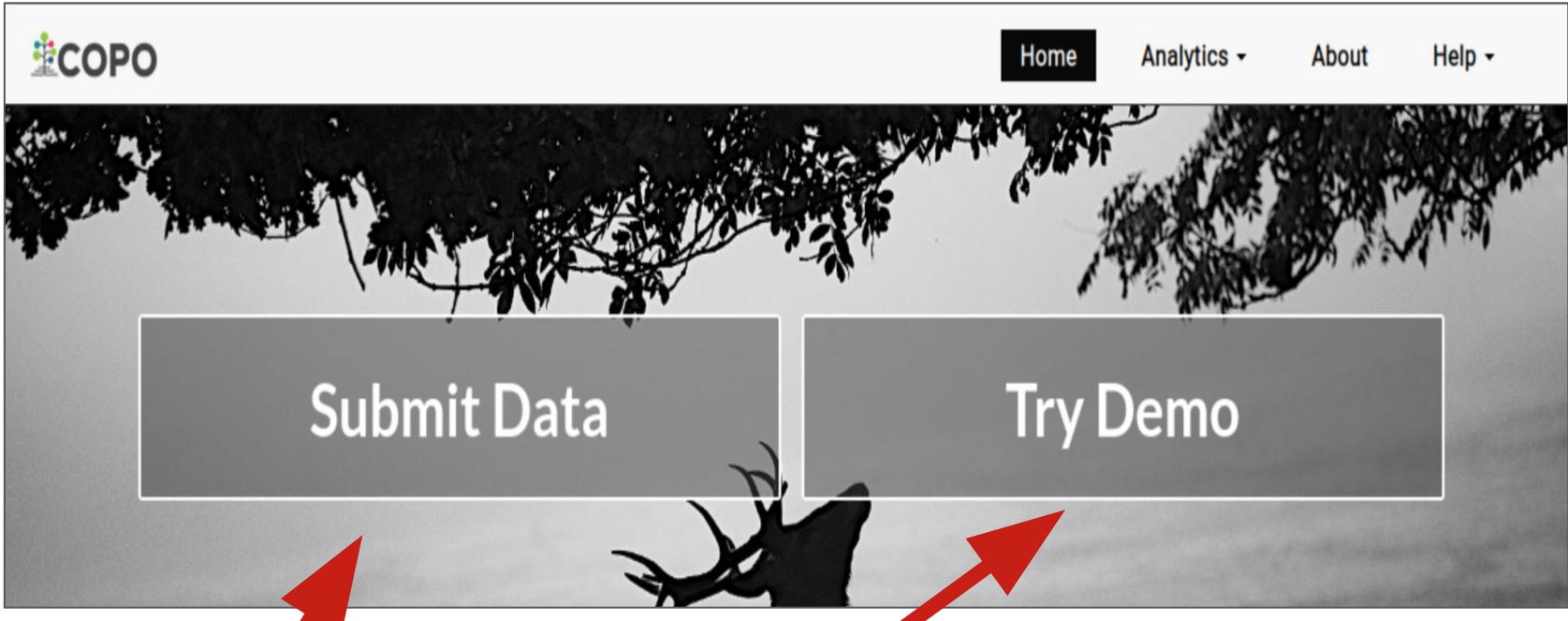
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## Prerequisites:

- An [ORCID account](#)
  - Contact [ei.copo@earlham.ac.uk](mailto:ei.copo@earlham.ac.uk) to be added to a project manifest group
  - Ensure that you have the latest version of the manifest if you are submitting samples as part of -
    - Aquatic Symbiosis Genomics (ASG) project, please refer to the latest metadata manifest
    - Darwin Tree of Life (DToL) project, please refer to the latest metadata manifest [here](#)
    - European Reference Genome Atlas (ERGA) project, please refer to the latest metadata manifest [here](#)
- The latest manifest templates can also be found in our [documentation](#).

# COPO's home page:



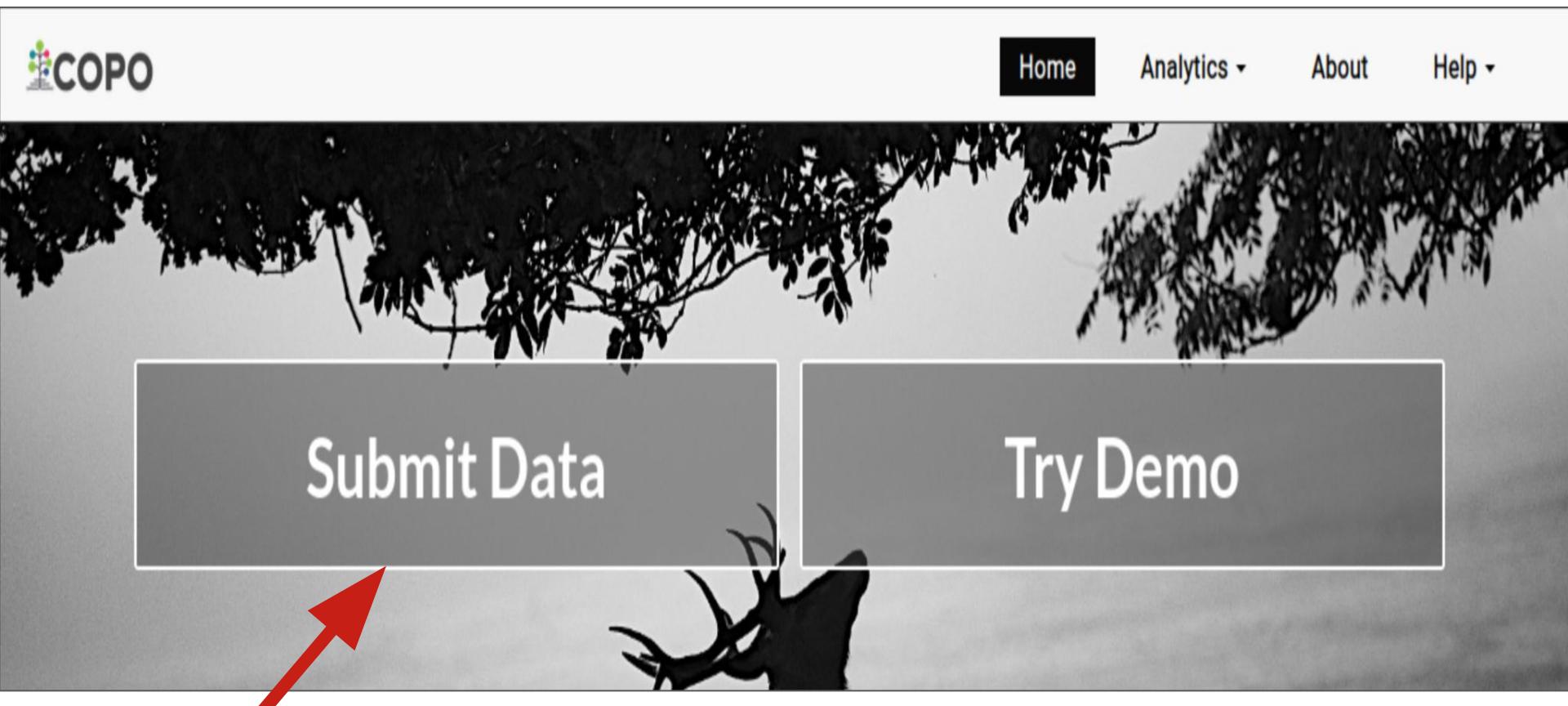
Once you are confident

To familiarise with the platform

**IMPORTANT** - Submissions to European Nucleotide Archive (ENA) through the demo server will not persist, accessions created will be deleted after 24 hours.

The demo server is frequently updated so it may occasionally be unreachable and you may find that we have deleted your past uploads.

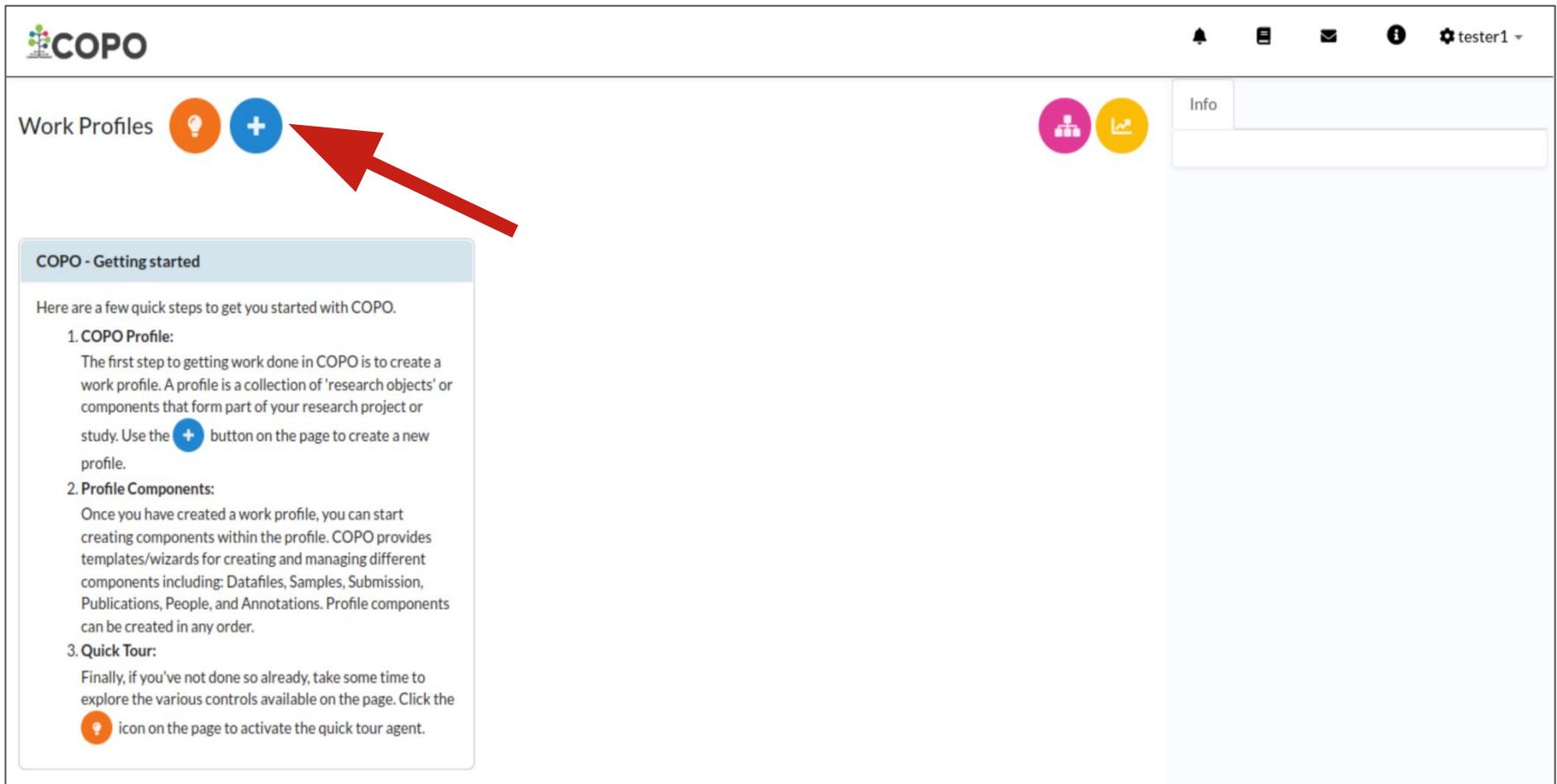
**Click “Submit Data” button to log in with your ORCiD credentials:**



An ORCiD sign-in form will be displayed after you click the **Submit Data** button.

Enter your ORCiD credentials to proceed to the **COPO Work Profiles** web page.

# Create a profile:



The screenshot shows the COPO application interface. At the top left is the COPO logo. On the right side, there are several icons: a bell, a document, an envelope, a user profile, and a dropdown menu set to "tester1". Below the header, the "Work Profiles" section is visible, featuring two buttons: an orange one with a lightbulb icon and a blue one with a plus sign. A large red arrow points from the bottom left towards the blue "+" button. To the right of the profiles section are two circular icons: a pink one with a grid and a yellow one with a chart. Further right is a white box labeled "Info". On the far left, a sidebar titled "COPO - Getting started" provides three quick steps:

- 1. COPO Profile:** The first step to getting work done in COPO is to create a work profile. A profile is a collection of 'research objects' or components that form part of your research project or study. Use the + button on the page to create a new profile.
- 2. Profile Components:** Once you have created a work profile, you can start creating components within the profile. COPO provides templates/wizards for creating and managing different components including: Datafiles, Samples, Submission, Publications, People, and Annotations. Profile components can be created in any order.
- 3. Quick Tour:** Finally, if you've not done so already, take some time to explore the various controls available on the page. Click the ? icon on the page to activate the quick tour agent.

An **Add Profile** form will be displayed after you click the blue button that has a white plus sign in its centre.

# Create a profile:

Add Profile

Title **required** ⓘ

Description **required** ⓘ

A collection of fish found in Oulton Broad, UK.

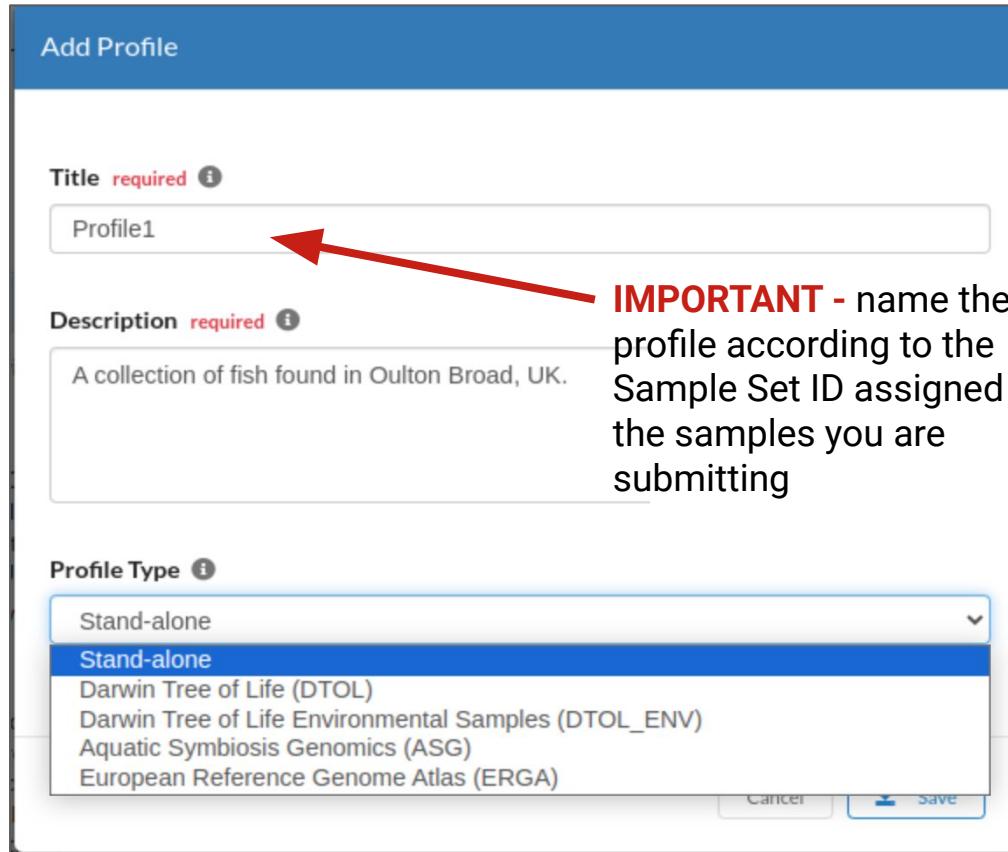
Profile Type ⓘ

Stand-alone

Stand-alone

Darwin Tree of Life (DTOL)  
Darwin Tree of Life Environmental Samples (DTOL\_ENV)  
Aquatic Symbiosis Genomics (ASG)  
European Reference Genome Atlas (ERGA)

Cancer Save



**IMPORTANT** - If you cannot see the project that you are associated with in the **Profile Type** dropdown menu of the **Add Profile** form, you need to be added to the relevant group.

Please stop here and get in touch with [ei.copo@earlham.ac.uk](mailto:ei.copo@earlham.ac.uk).

# Add associated profile type:

Add Profile

Title required ⓘ  
Profile1

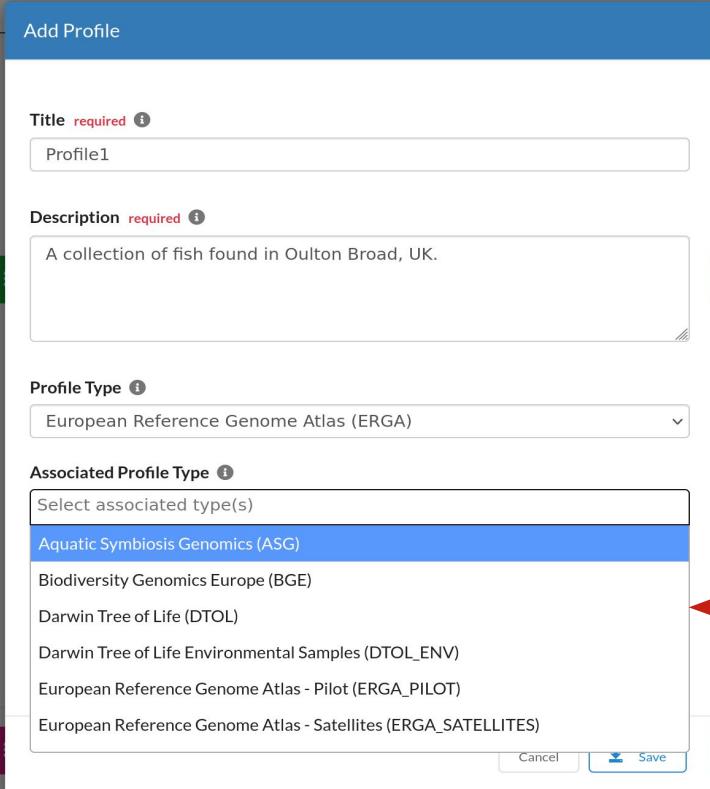
Description required ⓘ  
A collection of fish found in Oulton Broad, UK.

Profile Type ⓘ  
European Reference Genome Atlas (ERGA)

Associated Profile Type ⓘ  
Select associated type(s)  
Aquatic Symbiosis Genomics (ASG)   ←

Biodiversity Genomics Europe (BGE)  
Darwin Tree of Life (DTOL)  
Darwin Tree of Life Environmental Samples (DTOL\_ENV)  
European Reference Genome Atlas - Pilot (ERGA\_PILOT)  
European Reference Genome Atlas - Satellites (ERGA\_SATELLITES)

Cancel Save



## NOTE - for ERGA profile types only

- If your desired profile type is a part of a larger project, select the associated type from the **Associated Profile Type** dropdown menu.
- More than one associated type can be selected from the dropdown menu for the profile type.

# Add sequencing centre:

Add Profile

Title **required** ⓘ  
Profile1

Description **required** ⓘ  
A collection of fish found in Oulton Broad, UK.

Profile Type ⓘ  
European Reference Genome Atlas (ERGA)

Associated Profile Type ⓘ  
Biodiversity Genomics Europe (BGE)

Sequencing Centre **required** ⓘ  
Select sequencing centre

UNIVERSITY OF BARI

DNA SEQUENCING AND GENOMICS LABORATORY, HELSINKI GENOMICS CORE FACILITY

CENTRO NACIONAL DE ANÁLISIS GENÓMICO

FUNCTIONAL GENOMIC CENTER ZURICH

GENOSCOPE

LAUSANNE GENOMIC TECHNOLOGIES FACILITY



## NOTE - for ERGA profile types only

- Select the the centre where your samples will be sequenced at from the **Sequencing Centre** dropdown menu.

# New profile created:

The screenshot shows the COPO Work Profiles interface. At the top, there is a navigation bar with icons for notifications, messages, and user account (tester1). Below the header, there are two large orange buttons: one with a question mark and another with a plus sign. To the right of these buttons are two circular icons: one pink with a tree-like icon and one yellow with a graph-like icon. An 'Info' button is also present.

The main content area displays a profile card for "Profile1 (PROFILE1TYPE)". The card includes the following details:

- Created:** Mon, 05 Dec 2023 15:04
- Description:** A collection of fish found in Oulton Broad, UK.

A "View more..." button is located at the bottom left of the card. At the bottom of the card are "Actions" and "Components" dropdown menus.

On the right side of the page, there is a "Profile Types Legend" section containing a single entry:

- PROFILE1TYPE** (represented by a pink circle)

At the very bottom left, the text "Showing: 1 / 1 profiles" is displayed.

- After having provided the details in the **Add Profile** form and clicked the **Save** button, your new profile will be displayed on the COPO **Work Profiles** web page

## Edit or Delete profile:

The screenshot shows a profile card with the following details:

- Profile Name:** Profile1 (PROFILE1TYPE)
- Created:** Mon, 05 Dec 2023 15:04
- Description:** A collection of fish found in Oulton Broad, UK.
- Actions:** View more... (button)
- Buttons:** Edit (green) and Delete (red)

- ❶ If you would like to edit or delete a profile that you have created, click the white vertical ellipsis (⋮) located at the top right of the desired profile panel to view the profile options to do so

# Upload a manifest:

Profile1 (PROFILE1TYPE) ⋮

**Created:** Mon, 05 Dec 2023 15:04

**Description:**  
A collection of fish found in Oulton Broad, UK.

[View more...](#)

**Actions** ▾ **Components** ▾

- Submit Annotation
- Submit Assembly
- Submit Barcoding Manifest
- Submit Manifest** ←
- Submit Reads
- Upload Files

**i** The colour and wording of this profile panel will differ depending on which project you are submitting a manifest for.

# Upload a manifest:

The screenshot shows the COPO (Common Open Phenotype) web application. At the top left is the COPO logo. To its right are user profile icons for 'Profile1' and 'tester1'. The main navigation bar includes icons for a bell, envelope, and other notifications. Below the header, the 'Samples' section is highlighted. A red arrow points from the text below to the pink 'New Sample' icon (a plus sign inside a circle). The 'Samples - Getting started' panel contains descriptive text and instructions for using the sample upload feature. It also includes links for a quick tour and a manifest template download.

Profile: Profile1

Samples

**Samples - Getting started**

The samples page provides a platform for describing and managing biological samples, obtained as part of a project.

The description functionality presents a wizard that guides the user through a step-by-step process of sample metadata attribution.

Use the  to upload samples.

Click the  to download a blank manifest template.

Quick Tour: To explore the various controls available on this page, click the  icon.

**i** The colour and wording of the **Samples** web page will differ depending on which project you are submitting a manifest for.

# Upload a manifest:

Upload Spreadsheet

[Upload Sample Manifest](#) [Upload Images](#) [Upload Permits](#)

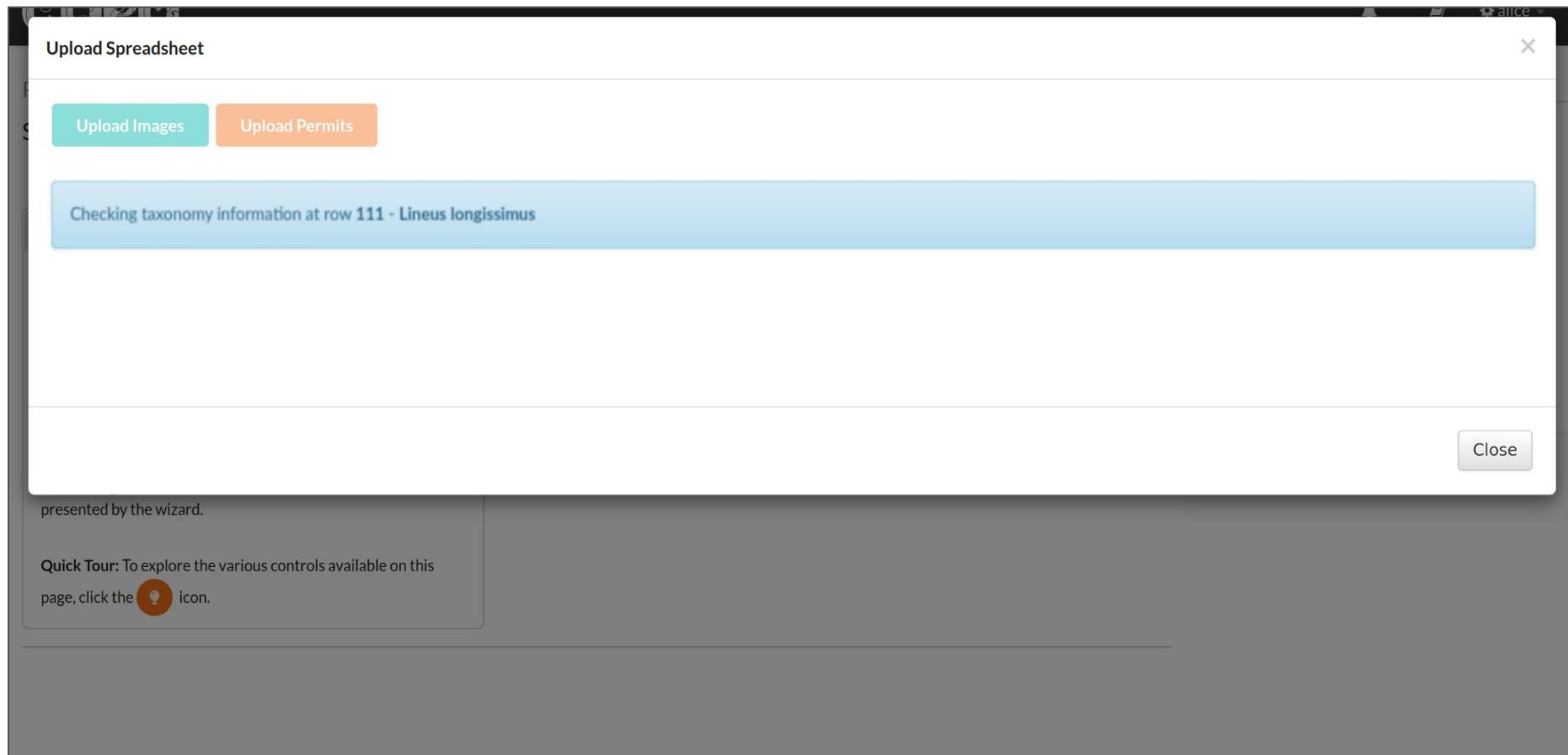
[Close](#)

user through a step-by-step process of sample metadata attribution.

Use the  to initiate sample description and follow the steps presented by the wizard.

**Quick Tour:** To explore the various controls available on this page, click the .

# COPO will validate taxonomy information and manifest format:



## What's happening (part 1):

- COPO is retrieving information from National Centre for Biotechnology Information (NCBI) to check that the taxonomy information provided is correct. We also check that the TAXON\_ID is submittable to ENA.
- If some of the taxonomy fields are missing (excluding SCIENTIFIC\_NAME), COPO will make an educated guess about what these fields should be and will display warnings about what is going to be filled in.

**The taxonomy checks will be much quicker if you fill in TAXON\_ID.**

- COPO will substitute scientific name synonyms with the official scientific name. It will display a warning and also record the change in OTHER\_INFORMATION.
- If any taxonomy field is incorrect, COPO will display an error and reject the manifest. You can download the error list with the red “Export Errors” button on the top right.
- **If you are unhappy with any of the warnings or errors, DO NOT click the finish button instead, contact NCBI to discuss the taxonomy.**

# Manifest uploaded -taxonomy warnings:-

Upload Spreadsheet X

Upload Images Upload Permits Export Errors

Synonym warning: *Asterina gibbosa* at row 294 is a synonym of *Asterina gibbosa* (Pennant, 1777). COPO will substitute the official scientific name.

Synonym warning: *Asterina gibbosa* at row 295 is a synonym of *Asterina gibbosa* (Pennant, 1777). COPO will substitute the official scientific name.

Synonym warning: *Asterina gibbosa* at row 296 is a synonym of *Asterina gibbosa* (Pennant, 1777). COPO will substitute the official scientific name.

Synonym warning: *Asterina gibbosa* at row 297 is a synonym of *Asterina gibbosa* (Pennant, 1777). COPO will substitute the official scientific name.

Synonym warning: *Aglais io* at row 336 is a synonym of *Inachis io*. COPO will substitute the official scientific name.

Synonym warning: *Aglais io* at row 337 is a synonym of *Inachis io*. COPO will substitute the official scientific name.

Synonym warning: *Aglais io* at row 338 is a synonym of *Inachis io*. COPO will substitute the official scientific name.

Synonym warning: *Satyrium w-album* at row 359 is a synonym of *Satyrium w-album*. COPO will substitute the official scientific name.

Synonym warning: *Aglais io* at row 385 is a synonym of *Inachis io*. COPO will substitute the official scientific name.

Synonym warning: *Melitaea athalia* at row 450 is a synonym of *Mellicta athalia*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 498 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 499 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 500 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 501 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 502 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 503 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Colias crocea* at row 504 is a synonym of *Colias croceus*. COPO will substitute the official scientific name.

Synonym warning: *Melitaea athalia* at row 516 is a synonym of *Mellicta athalia*. COPO will substitute the official scientific name.

SAN.xlsx

This is a warning:  
COPO will make  
these changes

# Manifest uploaded -taxonomy errors-:

Upload Spreadsheet

Upload Images    Upload Permits    Export Errors

1row\_updated\_ashdiebacksyn\_wrongtaxid2.xlsx

1. Invalid data: couldn't retrieve TAXON\_ID 7893 at row 2

This is an error: COPO will not accept the manifest

Close

Quick Tour: To explore the various controls available on this page, click the  icon.

## What's happening (part 2):

- **ONLY IF** the taxonomy validation was successful and produced no errors, will COPO check the manifest against SOP specifications. This includes checks for general format, missing data, cells that have restricted values, etc..

# Manifest uploaded - with compliance errors:-

Upload Spreadsheet

Upload Images    Upload Permits    Export Errors

Missing TAXON\_ID: row 2 - TAXON\_ID for Chalara Fraxinea will be filled with 746836  
Synonym warning: Chalara Fraxinea at row 2 is a synonym of Hymenoscyphus fraxineus. COPO will substitute the official scientific name.

1row\_updated\_ashdiebacksyn\_notaxid2\_nullrack.xlsx

1. Field not found - DIFFICULT\_OR\_HIGH\_PRIORITY\_SAMPLE
2. Invalid data: WHOLE ORGANISM in column ORGANISM\_PART at row 2. Allowed values are [\*\*OTHER\_FUNGAL\_TISSUE\*\*, \*\*OTHER\_PLANT\_TISSUE\*\*, \*\*OTHER\_REPRODUCTIVE\_ANIMAL\_TISSUE\*\*, \*\*OTHER\_SOMATIC\_ANIMAL\_TISSUE\*\*, 'ABDOMEN', 'ANTERIOR\_BODY', 'BLADE', 'BLOOD', 'BODYWALL', 'BRACT', 'BRAIN', 'BUD', 'CAP', 'CEPHALOTHORAX', 'EGG', 'EGGSHELL', 'ENDOCRINE\_TISSUE', 'EYE', 'FAT\_BODY', 'FIN', 'FLOWER', 'GILL\_ANIMAL', 'GILL\_FUNGI', 'GONAD', 'HAIR', 'HEAD', 'HEART', 'HEPATOPANCREAS', 'HOLDFAST\_FUNGI', 'KIDNEY', 'INTESTINE', 'LEAF', 'LEG', 'LIVER', 'LUNG', 'MID\_BODY', 'MODULAR\_COLONY', 'MUSCLE', 'MYCELIUM', 'MYCORRHIZA', 'NOT\_COLLECTED', 'NOT\_APPLICABLE', 'NOT\_PROVIDED', 'OVARY\_ANIMAL', 'oviduct', 'PANCREAS', 'PETIOLE', 'POSTERIOR\_BODY', 'SCALES', 'SCAT', 'SEEDLING', 'SEED', 'SHOOT', 'SKIN', 'SPERM\_SEMINAL\_FLUID', 'SPLEEN', 'SPORE', 'SPORE\_BEARING\_STRUCTURE', 'STEM', 'STIPE', 'STOMACH', 'TENTACLE', 'TERMINAL\_BODY', 'TESTIS', 'THALLUS\_FUNGI', 'THALLUS\_PLANT', 'THORAX', 'WHOLE\_ORGANISM', 'WHOLE\_PLANT']
3. Invalid data: REFERENCE GENOME in column PURPOSE\_OF\_SPECIMEN at row 2. Allowed values are ['REFERENCE\_GENOME', 'SHORT\_READ\_SEQUENCING', 'DNA\_BARCODING\_ONLY', 'RNA\_SEQUENCING']

This manifest was compliant with SOP2.1 and cannot be accepted

The errors should guide you to correct the manifest.  
You will have to correct and re-upload the updated spreadsheet

# Manifest uploaded -correct manifest-:

Upload Spreadsheet

Upload Images    Upload Permits

Missing TAXON\_ID: row 2 - TAXON\_ID for Chalara Fraxinea will be filled with 746836  
Synonym warning: Chalara Fraxinea at row 2 is a synonym of Hymenoscyphus fraxineus. COPO will substitute the official scientific name.

Sample Metadata    Sample Images    Sample Permits

Show 10 entries    Search:

Check the warnings if present

Series	Rack or Plate ID	Tube or Well ID	Specimen ID	Order or Group	Family	Genus	TAXON_ID	Scientific Name
1	null	FF06763795	SAN0000100	HELOTIALES	HELOTIACEAE	HYMENOSCYPHUS	746836	HYMENOSCYPHUS FRAXINEUS

# Manifest uploaded -correct manifest-:

Upload Spreadsheet

Upload Images    Upload Permits

Missing TAXON\_ID: row 2 - TAXON\_ID for Chalara Fraxinea will be filled with 746836  
Synonym warning: Chalara Fraxinea at row 2 is a synonym of Hymenoscyphus fraxineus. COPO will substitute the official scientific name.

Sample Metadata    Sample Images    Sample Permits

Preview of the manifest

Show 10 entries    Search:

SERIES	RACK_OR_PLATE_ID	TUBE_OR_WELL_ID	SPECIMEN_ID	ORDER_OR_GROUP	FAMILY	GENUS	TAXON_ID	SCIENTIFIC_NAME
1	null	FF06763795	SAN0000100	HELOTALES	HELOTIACEAE	HYMENOSCYPHUS	746836	HYMENOSCYPHUS FRAXINEUS



# Upload images:

Upload Spreadsheet

**Upload Images** **Upload Permits**

Missing TAXON\_ID at row 2 - TAXON\_ID for Chalara Fraxinea will be filled with 746836  
Synonym warning: Chalara fraxinea at row 2 is a synonym of Hymenoscyphus fraxineus. COPO will substitute the official scientific name.

Sample Metadata Sample Images Sample Search:

Show 10 entries

File names of any associated images must be the same as "SPECIMEN\_ID"-“n” with the extension “.jpg” or “.png”

SERIES	RACK_OR_PLATE_ID	TUBE_OR_WELL_ID	SPECIMEN_ID	ORDER_OR_GROUP	FAMILY	GENUS	TAXON_ID	SCIENTIFIC_NAME
1	null	FF06763795	SAN0000100	HELOTIALES	HELOTIACEAE	HYMENOSCYPHUS	746836	HYMENOSCYPHUS FRAXINEUS

# Uploaded images:

Upload Spreadsheet X

[Upload Images](#) [Upload Permits](#)

Missing TAXON\_ID: row 2 - TAXON\_ID for Chalara Fraxinea will be filled with 746836  
Synonym warning: Chalara Fraxinea at row 2 is a synonym of *Hymenoscyphus fraxineus*. COPO will substitute the official scientific name.

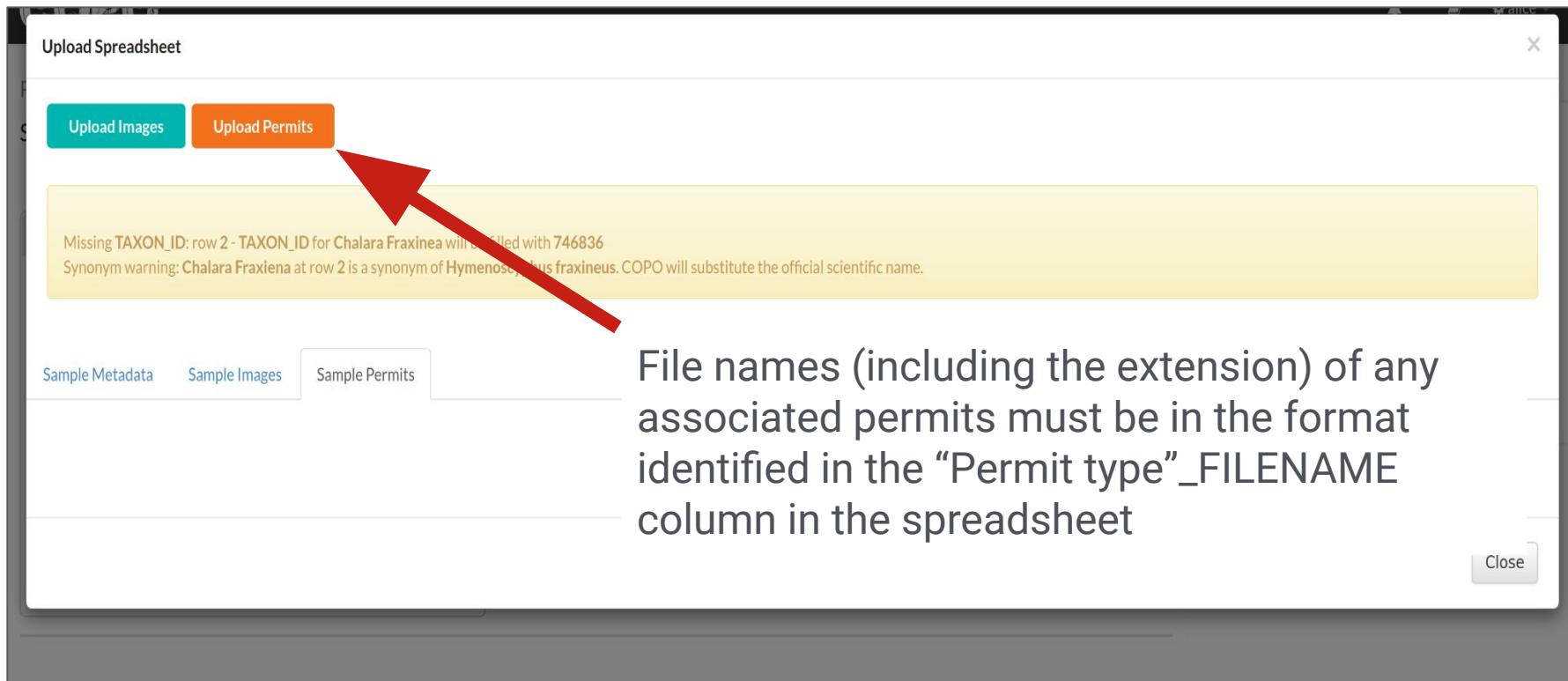
[Sample Metadata](#) [Sample Images](#) [Sample Permits](#)

Show  entries Search:

Specimen ID	Image File	Image
SAN0000100	SAN0000100-1.png	

Showing 1 to 1 of 1 entries [Previous](#) 1 [Next](#)

# Upload permits:



File names (including the extension) of any associated permits must be in the format identified in the "Permit type" \_FILENAME column in the spreadsheet

**IMPORTANT** - If you have more than one permit file to upload, they must be uploaded at the same time i.e. after you have clicked the "Upload Permits" button, navigate to the directory where the permits are stored and **CTRL + click** all of the permits so that all the permits are highlighted and uploaded at the same time.

All permit files have to be selected/opened from the directory and uploaded together not one after the other.

# Uploaded permits:

Upload Spreadsheet

Upload Images Upload Permits Finish

Missing TAXON\_ID: row 2 - TAXON\_ID for Chalara Fraxinea will be filled with 746836  
Synonym warning: Chalara Fraxiena at row 2 is a synonym of Hymenoscyphus fraxineus. COPO will substitute the official scientific name.

Sample Metadata Sample Images Sample Permits

Show 10 entries Search:

Specimen ID	Permit Files	Notes
ERGA_DS_382X_01_01	ERGA_DS_382X_01_01_SAMPLING_PERMITS.pdf	
ERGA_TD_5269_01	ERGA_TD_5269_01_SAMPLING_PERMITS.pdf	

Showing 1 to 2 of 2 entries Previous 1 Next

Close

- If there are any errors with the permit upload process, they will be displayed in the **Notes** table column of the **Sample Permits** tab

# Create the samples in COPO by clicking “Finish”:

Upload Spreadsheet

Upload Images Upload Permits Finish

Missing TAXON\_ID: row 2 - TAXON\_ID for Chalara Fraxinea needs to be filled with 746836  
Synonym warning: Chalara Fraxinea at row 2 is a synonym of *Hymenoscyphus fraxineus*. COPO will substitute the official scientific name.

Sample Metadata Sample Images Sample Permits

Show 10 entries Search:

Specimen ID	Image File	Image
SAN0000100	SAN0000100-1.png	

Showing 1 to 1 of 1 entries

Previous 1 Next

# Uploaded samples:

COP0

Profile: Profile1

Samples

Select all Select filtered Clear selection Export CSV Download sample manifest Download permits View images

Search Samples

Showing 1 to 25 of 417 records Click + beside a record to view extra details

Tube or Well Identifier	Specimen Identifier	Purpose of Specimen	Sample Coordinator (ERGA Ambassador)	Sample Coordinator (ERGA Ambassador) Affiliation	Sample Coordinator (ERGA Ambassador) ORC
+ FF16867824	ERGA_FOS_9317_002	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867825	ERGA_FOS_9317_003	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867826	ERGA_FOS_9317_004	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867827	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867828	ERGA_FOS_9317_006	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867829	ERGA_FOS_9317_007	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867830	ERGA_FOS_9317_008	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867831	ERGA_FOS_9317_009	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867832	ERGA_FOS_9317_010	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706
+ FF16867833	ERGA_FOS_9317_011	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	0000-0001-9688-5706

show 25 records

Previous 1 2 3 4 5 ... 17 Next

# Sample Managers:

- At this point, the sample managers will be emailed that a new manifest has been uploaded. They will be able to accept or reject each sample after inspection.

After samples are accepted by a sample manager, they will be submitted to European Nucleotide Archive (ENA).

Accessions can be inspected by:

- Scrolling right in the previous view
- Clicking the  button on the **Samples** web page to access the **Accessions** web page for the desired profile
- Clicking the  component button associated with the desired profile on the **Work Profiles** web page to access the **Accessions** web page

# Accepted samples:

COPO

Profile: Profile1

Samples

Select all Select filtered Clear selection Export CSV Download sample manifest Download permits View images

Search Samples

Showing 1 to 25 of 417 records Click + beside a record to view extra details

Other Information	Associated TOL (Tree of Life) Project	Biosample Accession	Manifest Identifier	Manifest Version	Public Name	SRA Accession	Status	Submission Accession
		SAMEA130812875	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari27	ERS27722072	accepted	ERA27745811
		SAMEA130812877	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari28	ERS27722074	accepted	ERA27745813
		SAMEA130812879	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari29	ERS27722076	accepted	ERA27745815
		SAMEA130812881	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari30	ERS27722078	accepted	ERA27745817
		SAMEA130812883	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari31	ERS27722080	accepted	ERA27745819
		SAMEA130812885	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari32	ERS27722082	accepted	ERA27745821
		SAMEA130812887	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari33	ERS27722084	accepted	ERA27745823
		SAMEA130812889	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari34	ERS27722086	accepted	ERA27745825
		SAMEA130812891	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari35	ERS27722088	accepted	ERA27745828
		SAMEA130812982	6d7f4a0b-989a-429b-aa40-a61bacfaad02	2.5	wuAreMari36	ERS27722179	accepted	ERA27745838

show 25 records

Previous 1 2 3 4 5 ... 17 Next

## Updating samples:

- To update samples, reupload a manifest with the amended changes. The new value will be detected and updated automatically once the resubmission is successfully completed.

More information regarding sample updates can be found [here](#).

- **i** Not all field values of existing samples can be updated by resubmitting a manifest with the amendments.

The fields that can be updated are listed [here](#).



If you encounter any errors or unexpected behaviour, please email [ei.copo@earlham.ac.uk](mailto:ei.copo@earlham.ac.uk) or open a GitHub issue in the [COPO repository](#).

If you have a feature request for future releases, please open an issue in the GitHub repository.

- ⓘ For detailed information regarding manifest submission and COPO, please see our [documentation](#).



[\*collaborative-open-plant-omics/COPO-production\*](#)





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