

A close-up photograph of a cow's head and neck, with its eye partially closed, set against a backdrop of a sunset or sunrise over a field of cattle.

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Alice Minotto

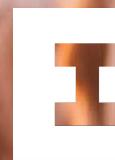
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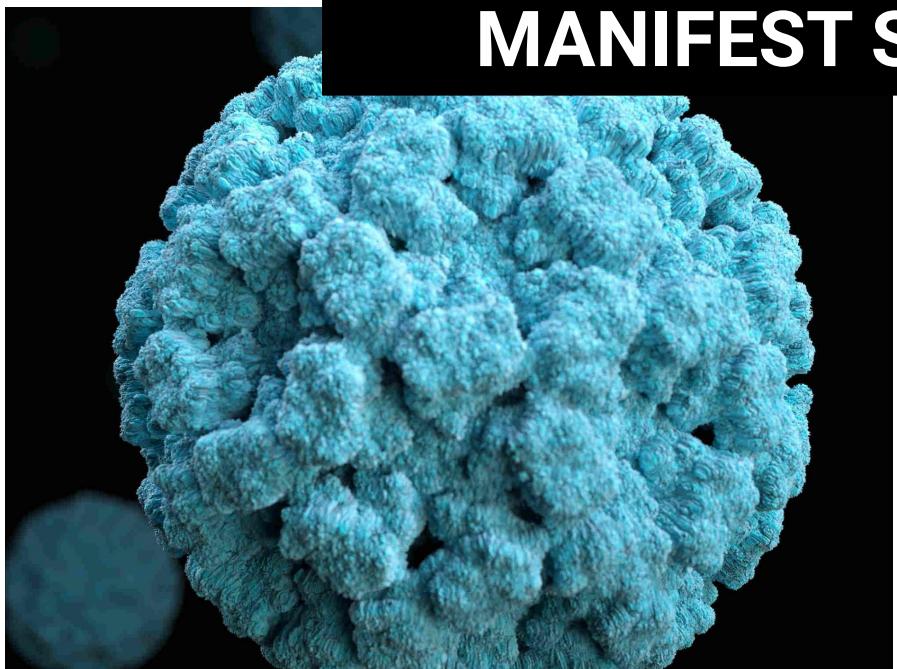


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Decoding Living Systems

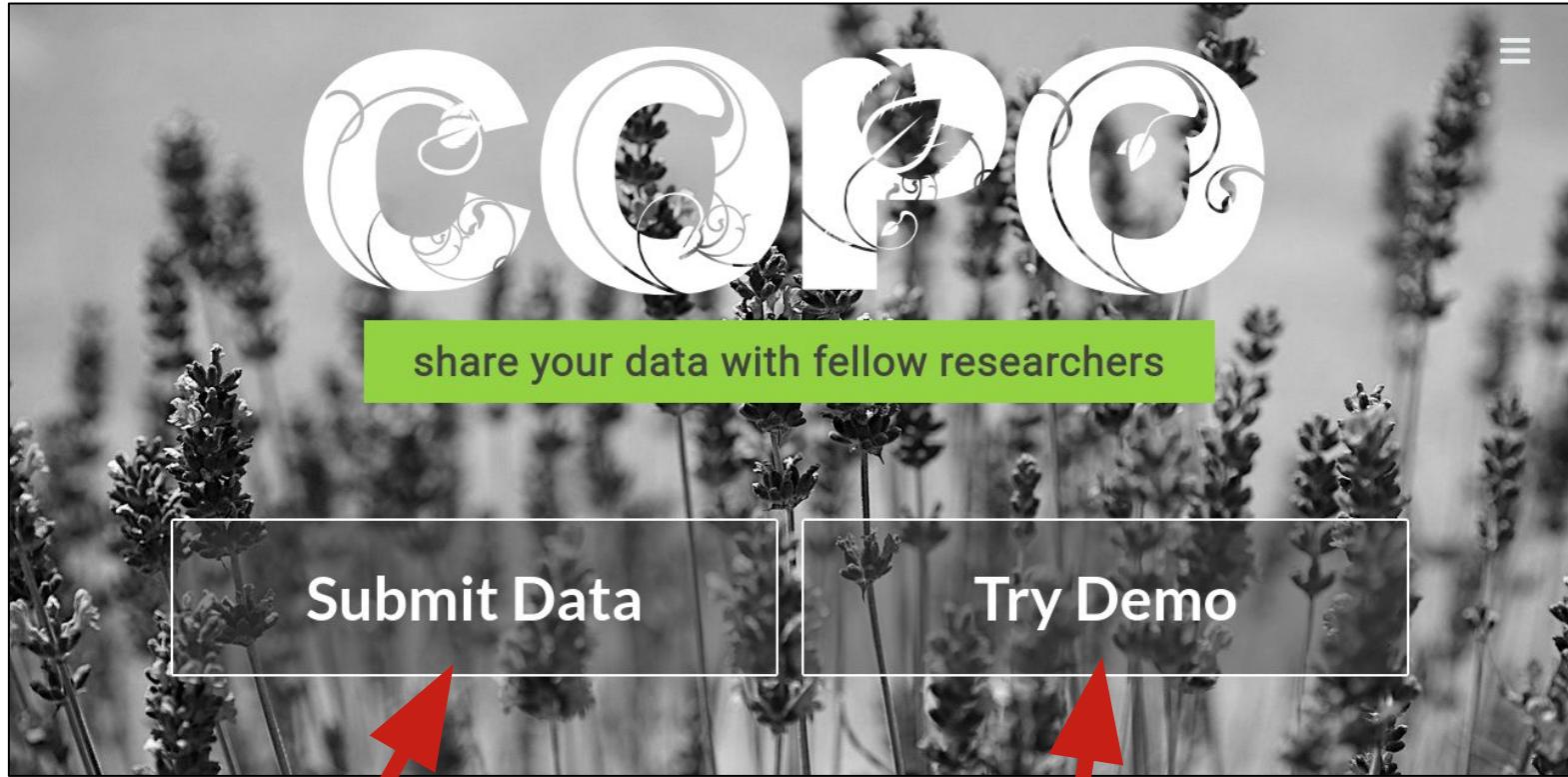


VISUAL DOCUMENTATION FOR MANIFEST SUBMISSION



What you need before starting:

- an ORCID account ([here](#) to register)
- contact EI.COPO@earlham.ac.uk to be added to a manifest group
- make sure you have the latest version of the manifest ([here](#))
 - if you are submitting as part of the ASG project, please refer to the latest metadata manifest
 - if you are submitting as part of an ERGA project, please refer to the latest metadata manifest [here](#)



Once you are confident

To familiarise with the platform

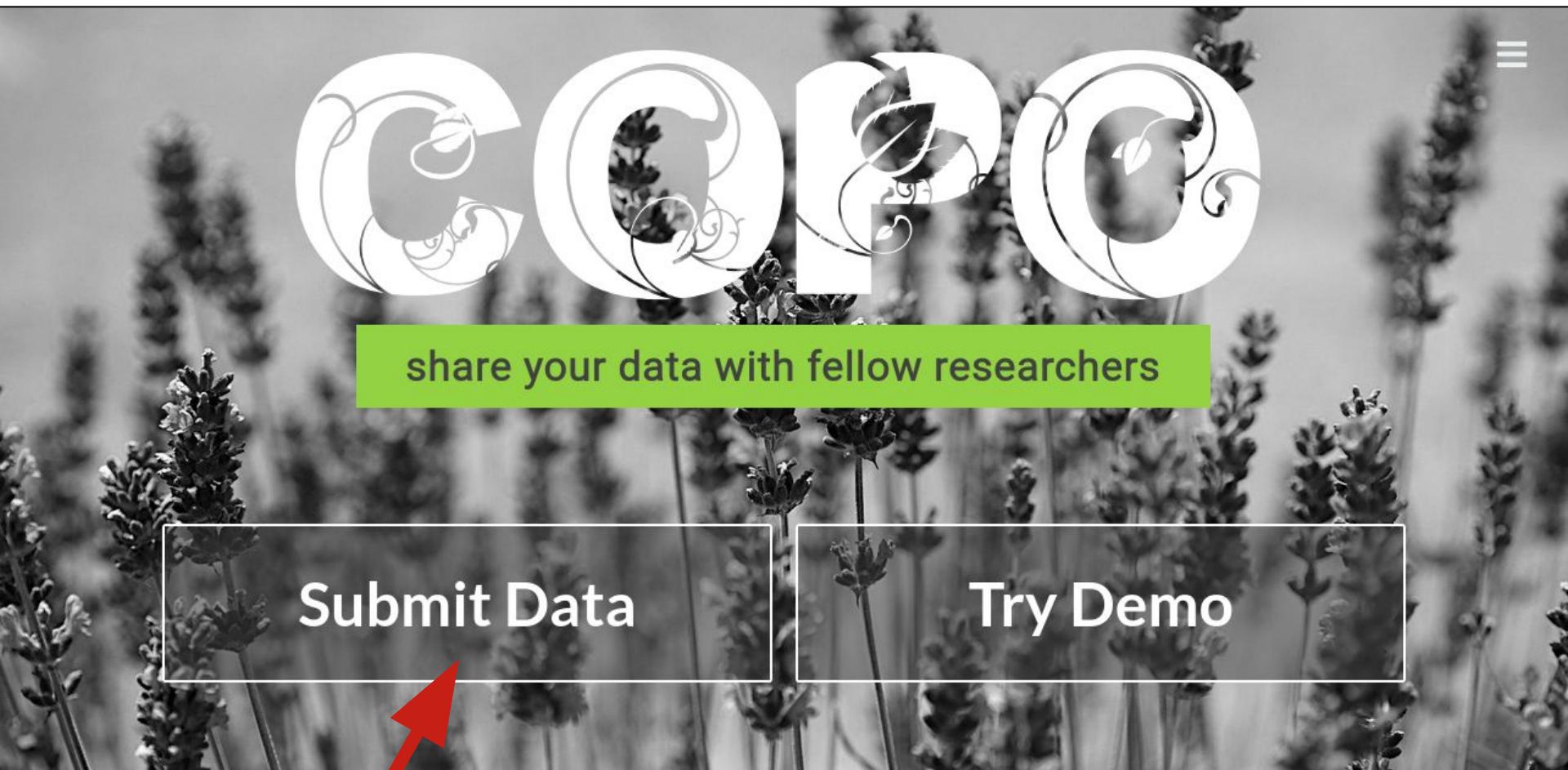
IMPORTANT - Submissions to ENA through the demo server will not persist, accessions created will be deleted after 24 hours.

We also update this server frequently, so it may occasionally be unreachable and you may find we have deleted your past uploads.



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Log in with your ORCiD credentials:



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Create a profile:

The screenshot shows the COPO (Common Open Plant Ontology) web application. At the top left, there's a logo with the letters 'COP' in white. To its right are navigation icons for 'Info' (blue), 'Help' (green), and a user account labeled 'alice'. Below the header, the main content area has a dark grey background. On the left, a card for 'Profile0 (PROFILE0TYPE)' is displayed. The card includes a green header bar with the profile name and three vertical dots. Below this, the 'Created' date is listed as 'Tue, 27 Oct 2020 15:46'. A 'Description' section contains the text: 'IMPORTANT: we use this information submit samples to ENA'. At the bottom of the card are two buttons: 'Actions' and 'Components', each with a small downward arrow icon. To the right of the card, a large red arrow points from the text 'Create a profile:' towards the blue '+' button located above the card. Above the card, the text 'Work Profiles' is followed by two circular buttons: one orange with a lightbulb icon and one blue with a plus sign. To the right of the card, there's a search bar labeled 'Search Help' and a 'Help Topics' sidebar. The sidebar lists seven topics under the heading 'Help Topics': 'What is a COP0 profile?', 'How do I create a profile?', 'How can I edit or delete a profile that I have created in COP0?', 'How many profiles can I have in COP0?', and 'How can I view more profiles that I have created in COP0?'. Below the sidebar, it says '1 to 5 of 7 topics' and shows page navigation buttons for 'Previous', '1', '2', and 'Next'. At the very bottom left, it says 'Showing: 1 / 1 profiles'.

Create a profile:

COPO

Work Profiles

Profile0 (PROFILE0TYPE)

Created: Tue, 27 Oct 2020 15:46

Description: IMPORTANT: we use this information submit samples to ENA

Actions

Components

Show: 1 / 1 profiles

Add Profile

Title required ⓘ

Profile1

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)

Info Help

Search Help

Help Topics

+ What is a COPO profile?

How do I create a profile?

Can I edit or delete a profile that I have created in COPO?

How many profiles can I have in COPO?

How can I view more profiles that I have created in COPO?

Help topics

Previous 1 2 Next

Profile Types Legend

PROFILE0TYPE ●

IMPORTANT - name the profile according to the Sample Set ID assigned to the samples you are submitting

IMPORTANT - If you cannot see the project that you are associated with in the "Profile Type" drop down menu, you need to be added to the relevant group.

Please stop here and get in touch with EI.COPO@earlham.ac.uk

Add associated profile type:

The screenshot shows the COPO (Community Open Phenotype Ontology) web application. On the left, there's a sidebar for 'Work Profiles' with a green header bar labeled 'Profile0 (PROFILETYPE)'. Below it are sections for 'Created' (Tue, 27 Oct 2020 15:46) and 'Description' (IMPORTANT: we use this information submit samples to ENA). At the bottom of the sidebar are 'Actions' and 'Components' buttons. The main area features a modal window titled 'Add Profile'. Inside the modal, there are fields for 'Title' (labeled 'required') containing 'Profile1', 'Description' (containing 'A collection of fish found in Oulton Broad, UK.'), 'Profile Type' (set to 'European Reference Genome Atlas (ERGA)'), and 'Associated Profile Type'. The 'Associated Profile Type' dropdown menu is open, showing several options: 'Select associated type(s)', 'Aquatic Symbiosis Genomics (ASG)', 'Biodiversity Genomics Europe (BGE)' (which is highlighted in blue), 'Darwin Tree of Life (DTOL)', and 'Darwin Tree of Life Environmental Samples (DTOL_ENV)'. A red arrow points to the 'Associated Profile Type' dropdown menu. To the right of the modal, there's a help sidebar with 'Help Topics' like 'What is a COPO profile?' and 'How many profiles can I have in COPO?'. It also shows '1 to 5 of 7 topics' and navigation buttons for 'Previous', '1', '2', and 'Next'. At the bottom right is a 'Profile Types Legend' with a green circle next to 'PROFILETYPE'.

*If your desired profile type is a part of a larger project, select the associated type from the “Associated Profile Type” drop down menu.

*More than one associated type can be selected from the drop down menu for the profile type.

This is your new profile (part 1):

The screenshot shows the COPO (Common Open Plant Ontology) interface. At the top, there's a navigation bar with icons for a bell, a user profile (alice), and settings. Below the header, a banner displays a green message: "New profile record created! Web page will refresh in 3 seconds." On the left, a sidebar titled "Work Profiles" features a search bar and two buttons: an orange one with a question mark and a blue one with a plus sign. The main content area shows a single profile entry: "Profile0 (PROFILE0TYPE)". The profile details include: "Created: Tue, 27 Oct 2020 15:46" and "Description: IMPORTANT: we use this information to submit samples to ENA". Below the profile details is a "Actions" dropdown menu containing "Components" and other options. At the bottom of the page, a footer states "Showing: 1 / 1 profiles".

This is your new profile (part 2):

The screenshot shows the COPO software interface for managing work profiles. On the left, there are two profile cards:

- Profile1 (PROFILE1TYPE)**: Created on Mon, 05 Dec 2022 15:04. Description: A collection of fish found in Oulton Broad, UK. Associated Profile Type(s): BGE. Actions and Components buttons.
- Profile0 (PROFILE0TYPE)**: Created on Tue, 27 Oct 2020 15:46. Description: IMPORTANT: we use this information to submit samples to ENA. Actions and Components buttons.

On the right, there is a sidebar with the following sections:

- Help Topics**:
 - What is a COPO profile?
 - How do I create a profile?
 - How can I edit or delete a profile that I have created in COPO?
 - How many profiles can I have in COPO?
 - How can I view more profiles that I have created in COPO?
- 1 to 5 of 7 topics
- Profile Types Legend**:
 - PROFILE1TYPE (pink circle)
 - PROFILE0TYPE (green circle)

At the bottom left, it says "Showing: 1 / 2 profiles".

Edit or Delete profile:

Profile1 (PROFILE1TYPE)

Created:
Mon, 05 Dec 2022 15:04

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

Associated Profile Type(s):

- BGE ⓘ

Actions

Components

Created:
Tue, 27 Oct 2020 15:46

Description:
IMPORTANT: we use this information to submit samples to ENA

Actions

Components

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



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Upload a manifest:

Profile1 (PROFILE1TYPE) ⋮

Created:
Mon, 05 Dec 2022 15:04

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

Associated Profile Type(s):

- BGE !

Actions ▶ Components ▶

Submit ERGA Manifest ▶ Components ▶

Profile0 (PROFILE0TYPE) ⋮

Created:
Tue, 27 Oct 2020 15:46

Description:
IMPORTANT: we use this information to submit samples to ENA

Actions ▶ Components ▶

Submit ERGA Manifest ▶ Components ▶

A large red arrow points from the bottom left towards the 'Submit ERGA Manifest' button in the middle panel, highlighting it as the primary action to take.

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



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Upload a manifest:

The screenshot shows the COPO (Cloud Object Storage Platform) interface. At the top, there's a navigation bar with the COPO logo, a user profile for 'alice', and icons for notifications and settings. Below the header, the main content area has a dark header bar with 'Profile: Profile 1' and a 'Samples' section. In the 'Samples' section, there are three circular buttons: orange (lightbulb), green (grid), and teal (list). A red arrow points from the text 'Upload Manifest' in a callout bubble above the green button to the green button itself. To the right of the samples section, there's a toolbar with four icons: a black cylinder, a green square, an orange speech bubble, and a red group of people. Further right is a 'Help' sidebar with tabs for 'Info' and 'Help'. The 'Help' tab is active, showing a search bar and a 'Help Topics' section with links for 'Describing samples' and 'Sample types'. It also shows '1 to 2 of 2 topics' and navigation buttons for 'Previous', '1', and 'Next'.

Profile: Profile 1

Samples

Upload Manifest

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

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

Help Topics

- + Describing samples
- + Sample types

1 to 2 of 2 topics

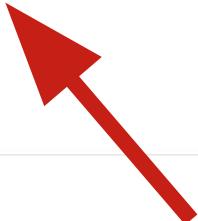
Previous 1 Next

*Only sample managers will see the third (teal) button next to the green button, if this is not your role do not worry about that, you would not need it

Upload a manifest:

Upload Spreadsheet

Upload Sample Manifest **Upload Images** **Upload Permits**

A large red arrow points from the bottom-left towards the 'Upload Sample Manifest' button.

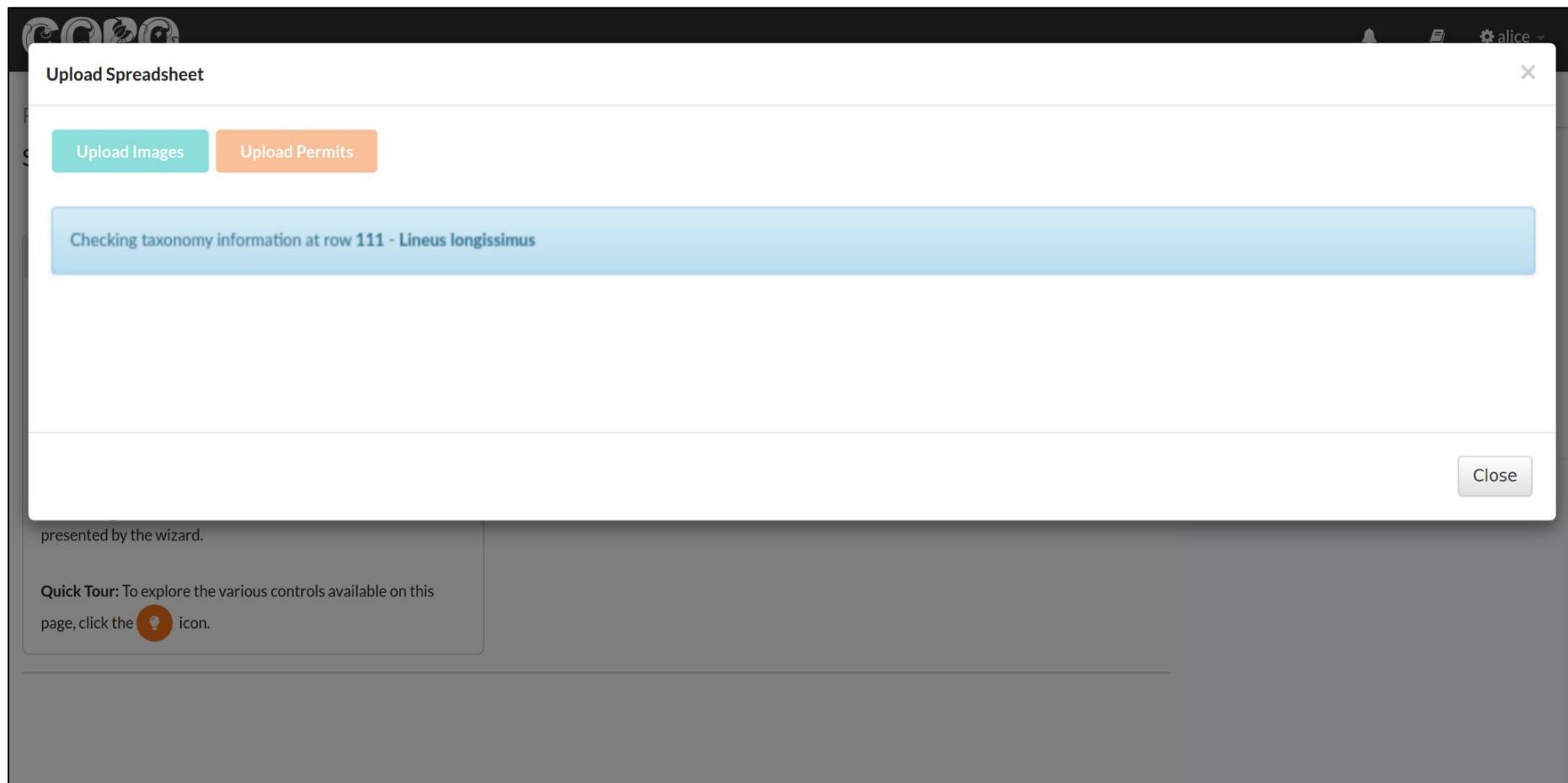
user through a step-by-step process of sample metadata attribution.

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 .

Previous 1 Next

COPO will validate taxonomy information and manifest format:



What's happening (part 1):

- COPO is retrieving information from NCBI (National Center for Biotechnology Information) 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 warning/errors, DO NOT press finish; instead contact NCBI to discuss the taxonomy**



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Manifest uploaded -taxonomy warnings:-

Upload Spreadsheet

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



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Manifest uploaded -taxonomy errors-:

The screenshot shows a modal window titled "Upload Spreadsheet" from the COPO application. The window contains several buttons: "Upload Images" (green), "Upload Permits" (orange), and "Export Errors" (red). A red error message box displays the file name "1row_updated_ashdiebacksyn_wrongtaxid2.xlsx" and the error message "1. Invalid data: couldn't retrieve TAXON_ID 7893 at row 2". In the bottom right corner of the error box, there is a small red rectangular placeholder. At the bottom of the window, there is a "Close" button. A "Quick Tour" link is located in the bottom left corner, accompanied by a lightbulb icon.

This is an error: COPO will not accept the manifest



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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 -compliance errors-:

The screenshot shows the COPO software interface with the following elements:

- Header:** COPO, Alice, and a user icon.
- Buttons:** Upload Spreadsheet, Upload Images (highlighted in green), Upload Permits, and Export Errors.
- Message Area:** A yellow box contains two messages:
 - 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.
- Manifest File:** 1row_updated_ashdiebacksyn_notaxid2_nullrack.xlsx
- Errors:** A pink box lists three errors:
 - Field not found - DIFFICULT_OR_HIGH_PRIORITY_SAMPLE
 - 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']
 - 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']
- Note:** 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



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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	HELOTALES	HELOTIACEAE	HYMENOSCYPHUS	746836	HYMENOSCYPHUS FRAXINEUS



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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	HELOTIALES	HELOTIACEAE	HYMENOSCYPHUS	746836	HYMENOSCYPHUS FRAXINEUS



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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 PDF

Show 10 entries

Search:

File names of any associated images must be the same as "SPECIMEN_ID" 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



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Uploaded images:

COPC

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*. COPC will substitute the official scientific name.

Sample Metadata Sample Images Sample Permits

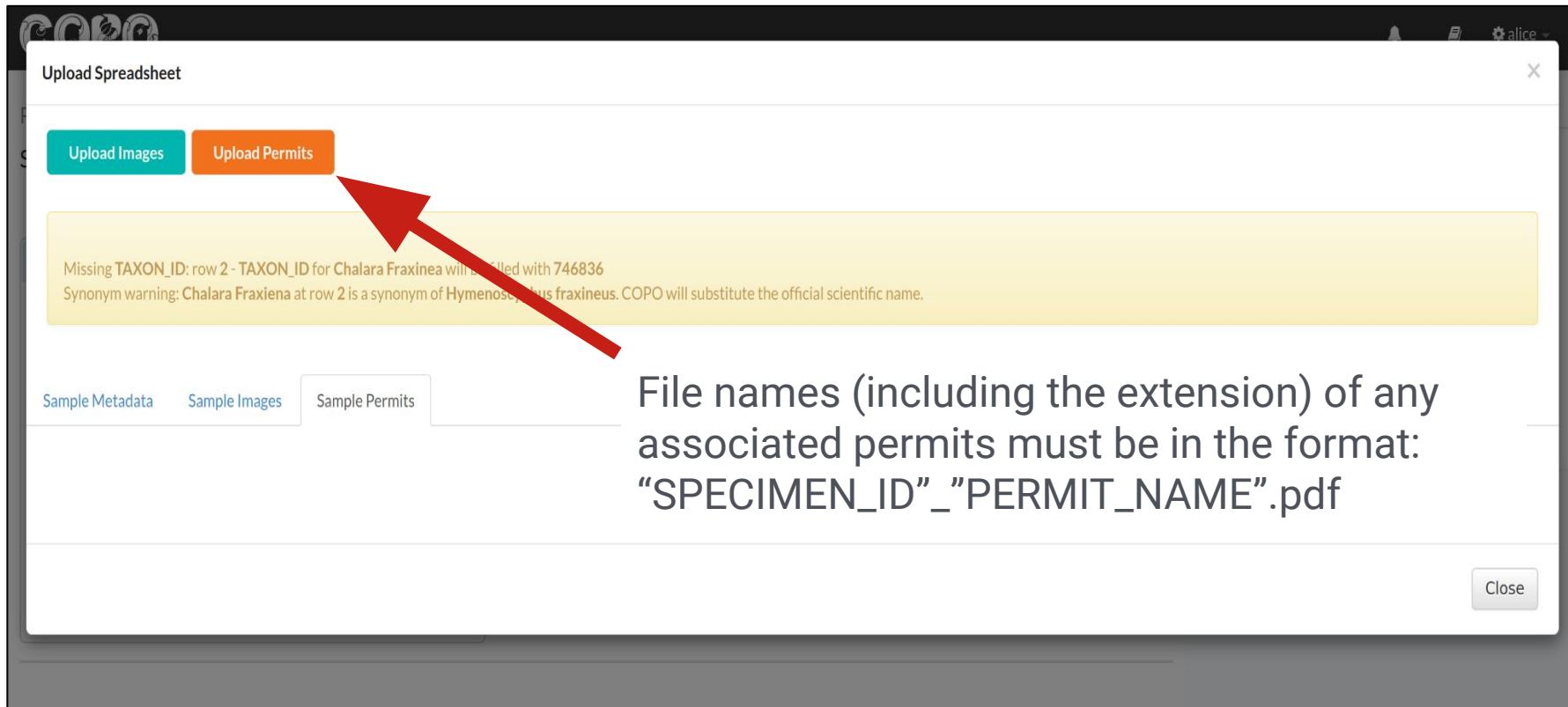
Show 10 entries Search:

Specimen ID	Image File	Image
SAN0000100	SAN0000100.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: "SPECIMEN_ID"_"PERMIT_NAME".pdf

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

Create the samples in COPO by clicking “Finish”:

Upload Spreadsheet

Upload Images Upload Permits **Finish**

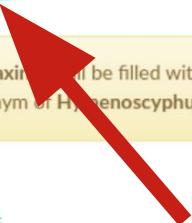
Missing TAXON_ID: row 2 - TAXON_ID for *Chalara Fraxinea* will be filled with 746836
Synonym warning: *Chalara Fraxinea* at row 2 is a synonym of *Hyphomycophus fraxineus*. COPO will substitute the official scientific name.

Sample Metadata Sample Images Sample Permits

Show 10 entries Search:

Specimen ID	Image File	Image
SAN0000100	SAN0000100.png	

Showing 1 to 1 of 1 entries Previous 1 Next



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Uploaded samples:

The screenshot shows the COPD software interface for managing biological samples. At the top, there's a navigation bar with the COPD logo, user profile 'alice', and various icons for notifications, file management, and help.

The main area is titled 'Profile: Profile 1' and contains a 'Samples' section. It features three circular buttons: orange (with a lightbulb), green (with a grid), and teal (with a list). Below these are several action buttons: 'Select all', 'Select filtered', 'Clear selection', 'Export CSV', 'Source list' (highlighted in yellow), and 'Describe'. A search bar labeled 'Search Samples' is also present.

A message at the top indicates 'Showing 1 to 1 of 1 records' and provides instructions to click a green '+' icon next to a record to view extra details.

The data is presented in a table with the following columns: Name, Collected By, Date of Collection, Sex, Lifestage, Identified By, Identifier Affiliation, Common Name, and Spec Id. Each column has a sorting arrow icon below it. The first row shows the headers, and the second row displays data for a single sample.

Name	Collected By	Date of Collection	Sex	Lifestage	Identified By	Identifier Affiliation	Common Name	Spec Id
JULIE AHRINGER RICHARD DURBIN		2020-08-22	MALE	SPORE_BEARING_STRUCTURE	MARK BLAXTER	SANGER INSTITUTE	lugworm	SANC

To the right of the table, there's a sidebar with 'Help Topics' sections for 'Describing samples' and 'Sample types', and a page number indicator '1'.

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 approved by a sample manager, they will be submitted to ENA (European Nucleotide Archive). Accessions can be inspected by scrolling right in the previous view.

Accepted samples:

CCPO

Profile: Profile 1

Samples

Select all Select filtered Clear selection Export CSV Source list Describe Search Samples

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

Voucher ID	Manifest ID	Biosample Accession	SRA Accession	Submission Accession	Status	Public Name	Date Modified
NOT APPLICABLE	1943d3d2-7976-4563-859e-6877fb1d2560	SAMEA7491029	ERS5247681	ERA3031374	accepted	gyHymFrax1	[object Object]

Info Help

Search Help

Help Topics

- + Describing samples
- + Sample types

1 to 2 of 2 topics

Previous 1 Next



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If you encounter any errors or unexpected behaviour, please email EI.COPO@earlham.ac.uk or open a GitHub issue in the [COP0 repository](#) at the bottom of the page.

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

We are currently working on a pipeline to update uploaded samples. For the time being, if you need to update a sample please email us at EI.COPO@earlham.ac.uk specifying the biosample accession, the field to update and the new value. Likewise, if you need to update the taxonomy, please send the biosample accession and the new scientific name then, we will update all the taxonomy fields accordingly.



[collaborative-open-plant-omics /COP0](#)



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CyVerseUK is supported by the BBSRC through strategic funding and the capital grant BB/M018431/1.

CyVerse is supported by the National Science Foundation under Award Numbers DBI-0735191 and DBI-1265383. URL: www.cyverse.org



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