

# COPO

VISUAL DOCUMENTATION FOR  
MANIFEST SUBMISSION

Collaborative OPen Omics  
[ei.copo@earlham.ac.uk](mailto:ei.copo@earlham.ac.uk), [@cupo-project](https://twitter.com/copo-project)



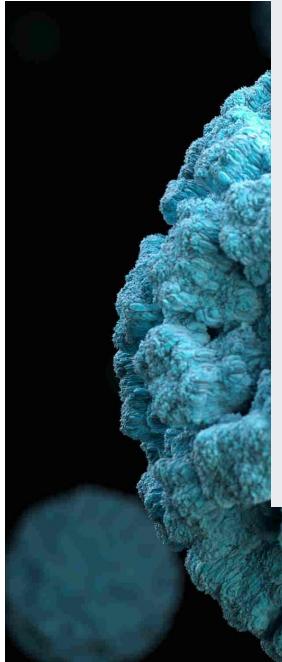
 Earlham  
Institute  
Decoding Living Systems



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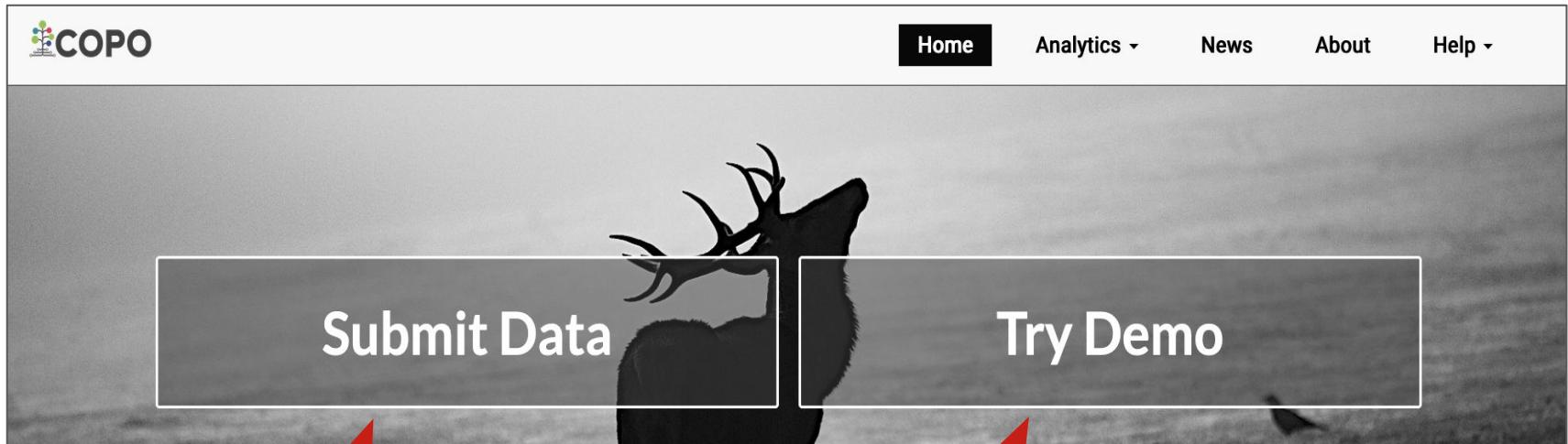
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## Prerequisites:

- 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:**



[Home](#)

[Analytics](#) ▾

[News](#)

[About](#)

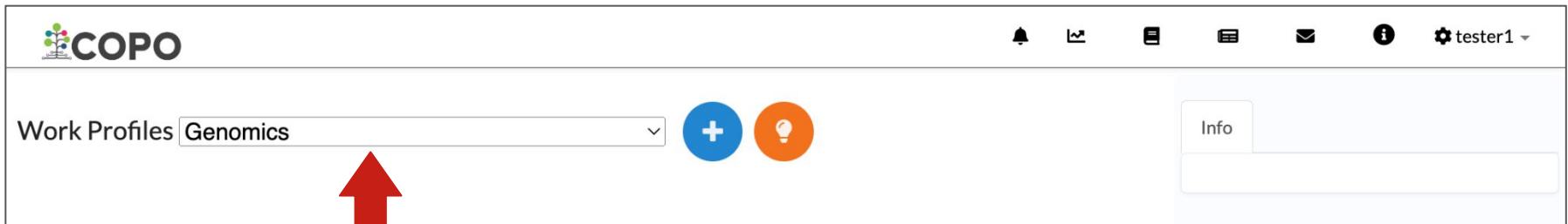
[Help](#) ▾



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.

# Choose profile type from dropdown menu:



COPO

Work Profiles Genomics

Info

**COPO - Getting started**

Here are a few quick steps to get you started with COPO.

**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.

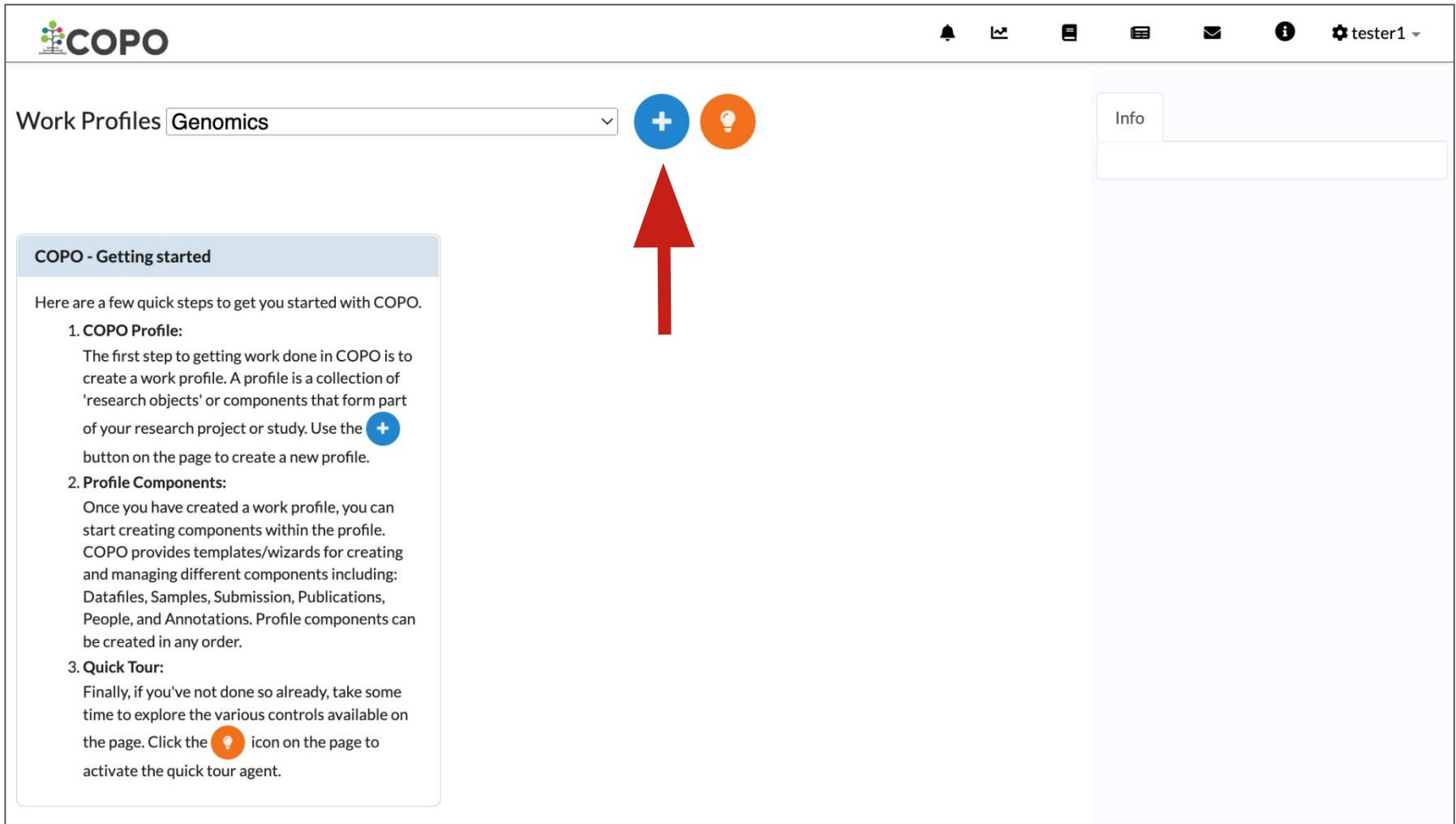
**3. Quick Tour:**  
Finally, if you've not done so already, take some time to explore the various controls available on the page. Click the  icon on the page to activate the quick tour agent.

**IMPORTANT**

- If you cannot see the project that you are associated with in the dropdown menu, 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).

# Create a profile:



The screenshot shows the COPO web application interface. At the top left is the COPO logo. To its right are several small icons: a bell, a magnifying glass, a document, an envelope, and a gear. Next to the gear icon is the text "tester1". On the far left, there's a sidebar titled "COPO - Getting started" containing three numbered sections: 1. COPO Profile, 2. Profile Components, and 3. Quick Tour. The main content area has a dropdown menu "Work Profiles" set to "Genomics". Below it are two buttons: a blue one with a white plus sign and an orange one with a white lightbulb icon. A large red arrow points upwards from the bottom towards the blue button.

Work Profiles Genomics

COPO - Getting started

- 1. COPO Profile:**  
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- 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 i

Profile1

**Description** required i

A collection of fish found in Oulton broad, UK.

**IMPORTANT**

- name the profile according to the sample set ID assigned to the samples you are submitting

# Add associated profile type (if applicable)

**Associated Profile Type** required i

Select associated type(s)

- BioBlitz**
- Biodiversity Genomics Europe (BGE)
- Catalan Initiative for the Earth BioGenome Project (CBP)
- European Reference Genome Atlas - Community (ERGA\_COMMUNITY)
- European Reference Genome Atlas - Pilot (ERGA\_PILOT)
- Population Genomics (POP\_GENOMICS)

## **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 (if applicable):

Sequencing Centre required i

Select sequencing centre

CENTRO NACIONAL DE ANÁLISIS GENÓMICO

DNA SEQUENCING AND GENOMICS LABORATORY, HELSINKI GENOMICS CORE  
FACILITY

EARLHAM INSTITUTE

FUNCTIONAL GENOMIC CENTER ZURICH

GENOSCOPE

HANSEN LAB. DENMARK

### NOTE - for ERGA profile types only

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

## Add locus tags (if applicable):

ENA locus tags 

-  More information about locus tags can be found in the [FAQ](#) of the COPO documentation

# 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 profiles (tester1). Below the navigation, a dropdown menu shows "Work Profiles" and "Test Profile (PROFILETYPE)". There are two buttons: a blue "+" button and an orange button with a lightbulb icon. To the right, there is an "Info" section and a sorting dropdown set to "Date Created".

The main area displays a single profile card for "Profile1 (PROFILETYPE)". 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.
- A "Components" dropdown menu.

To the right of the profile card is a "Profile Types Legend" box containing a pink circle with a white exclamation mark and the text "PROFILETYPE".

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

- 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 for "Profile1 (PROFILETYPE)". The card has a pink header bar with the profile name. Below it, the "Created" date is listed as "Mon, 05 Dec 2023 15:04". The "Description" is "A collection of fish found in Oulton Broad, UK.". A "View more..." button is visible. At the bottom left is a "Components" dropdown. On the right side, there is a white callout box with three buttons: "Edit" (green), "Delete" (red), and "Release Study" (blue).

- 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 (PROFILETYPE) ⋮

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

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

[View more...](#)

**Components ▾**

- Accessions
- Assembly
- Barcoding Manifests
- Files
- Reads
- Samples
- Sequence Annotations

**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 interface. At the top, there is a navigation bar with icons for notifications, messages, and account settings. Below the navigation bar, the text "Profile: Profile1" is displayed. In the top left, there is a "Samples" section with four circular icons: a brown one with a download arrow, a yellow one with a download arrow, a pink one with a grid icon (which has a red arrow pointing to it), and an orange one with a lightbulb icon. To the right of the Samples section is a toolbar with six icons: a pink one with a grid, a purple one with a puzzle piece, a red one with horizontal bars, a blue one with a document, an orange one with a DNA helix, and a yellow one with a price tag. Further to the right is a "Info" button.

**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.

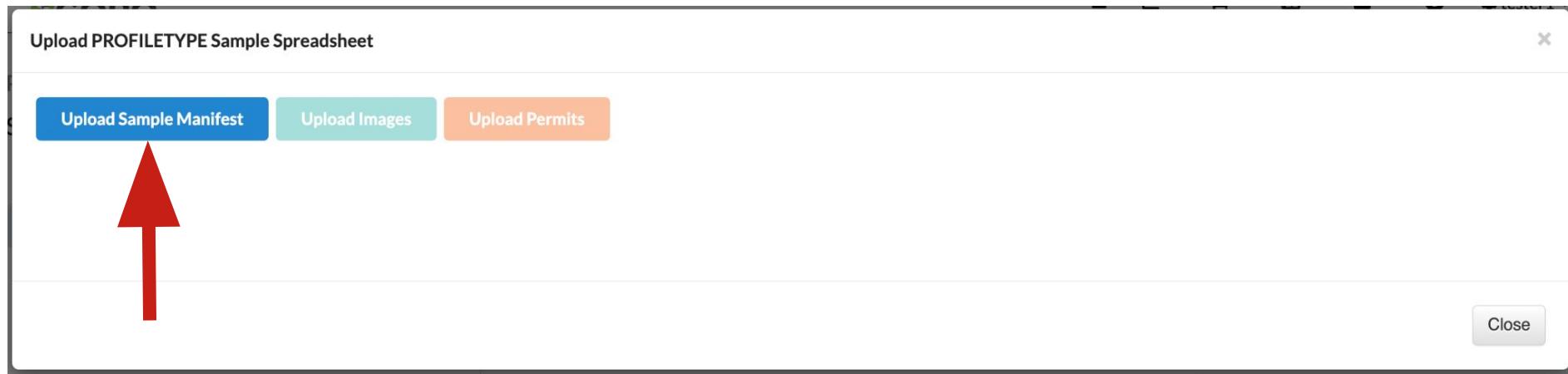
Use the to upload Test Profile (PROFILETYPE) samples.

Click the to download a blank Test Profile (PROFILETYPE) manifest template.

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

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

# Upload a manifest:



# COPO will validate taxonomy information and manifest format:

Upload PROFILETYPE Sample Spreadsheet

Upload Images Upload Permits

Checking taxonomy information |

Close

## 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

These are warnings:  
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.

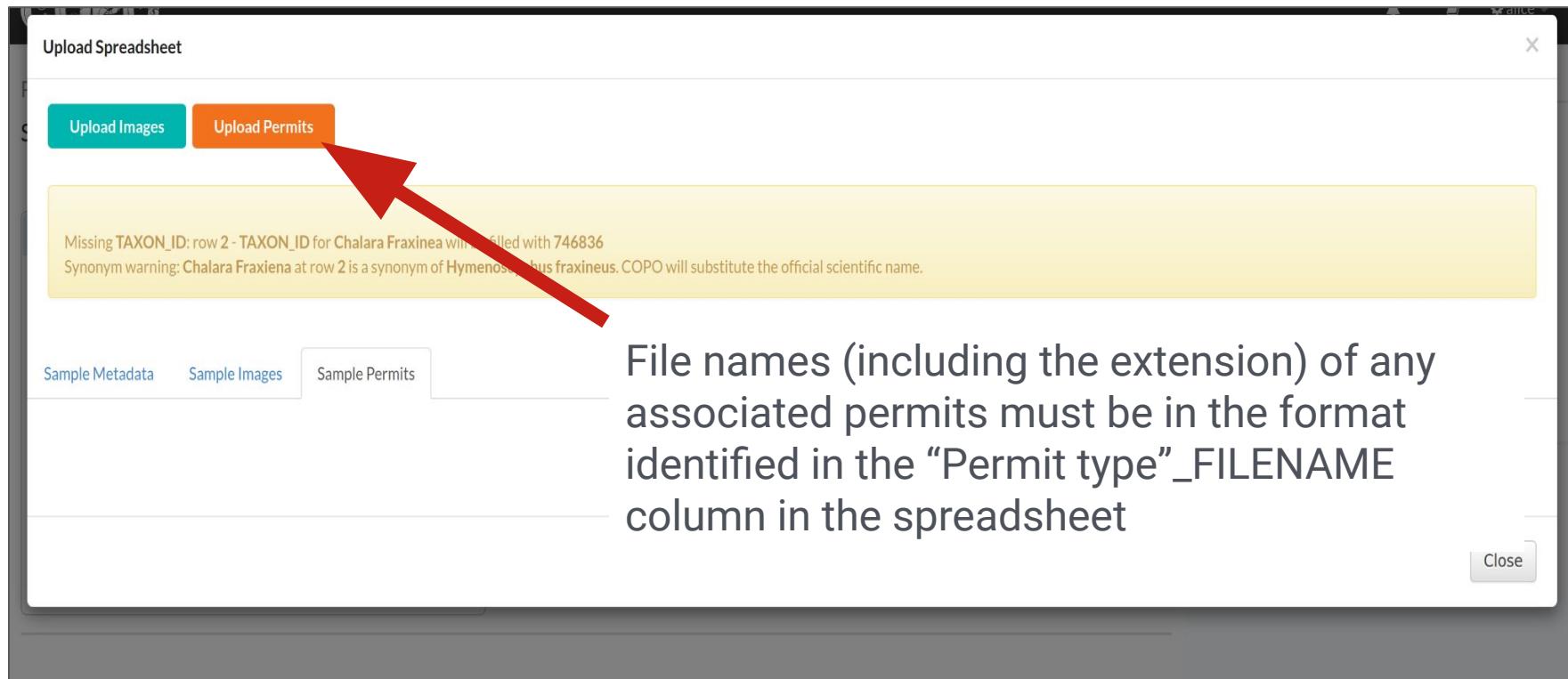
[Sample Metadata](#) [Sample Images](#) [Sample Permits](#)

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:

COPO

Profile: Profile 1

Samples

Icons: Download (brown), Download manifest (yellow), Filter (pink), Help (orange)

Buttons: Select all, Select filtered, Clear selection, Export CSV, Download sample manifest (blue), Download permits (orange), View images (green)

Search Samples: Search bar

Table Headers: Tube or Well Identifier, Specimen Identifier, Purpose of Specimen, Sample Coordinator (ERGA Ambassador), Sample Coordinator (ERGA Ambassador) Affiliation, Status

Table Data:

Tube or Well Identifier	Specimen Identifier	Purpose of Specimen	Sample Coordinator (ERGA Ambassador)	Sample Coordinator (ERGA Ambassador) Affiliation	Status
FF16867821	ERGA_FOS_9317_001	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867822	ERGA_FOS_9317_002	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867823	ERGA_FOS_9317_003	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867824	ERGA_FOS_9317_004	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867825	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867826	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867827	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867828	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867829	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success
FF16867830	ERGA_FOS_9317_005	REFERENCE_GENOME	JANE DOE	EARLHAM_INSTITUTE	Success

show 10 records

Navigation: Previous, 1, 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 via any of the following options:

- 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: Profile 1

Samples

Sample Management Tools:

Actions:

Search Samples

Showing 1 to 10 of 10 records Click beside a record to view extra details

Sample ID	Other Information	Public Name	Status	Biosample Accession	SRA Accession	Submission Accession	Manifest Identifier
		wuAreMari470	accepted	SAMEA131385111	ERS30974000	ERA30792051	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari471	accepted	SAMEA131385112	ERS30974001	ERA30792052	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari472	accepted	SAMEA131385113	ERS30974002	ERA30792053	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari473	accepted	SAMEA131385114	ERS30974003	ERA30792054	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari474	accepted	SAMEA131385115	ERS30974004	ERA30792055	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari475	accepted	SAMEA131385116	ERS30974005	ERA30792056	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari476	accepted	SAMEA131385117	ERS30974006	ERA30792057	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari478	accepted	SAMEA131385118	ERS30974007	ERA30792058	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari479	accepted	SAMEA131385119	ERS30974008	ERA30792059	474c34a7-dc71-4cb8-a751-36196f1ece4a
		wuAreMari180	accepted	SAMEA131385120	ERS30974009	ERA30792060	474c34a7-dc71-4cb8-a751-36196f1ece4a

show 10 records

Navigation: Previous 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 [COP0 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](#).



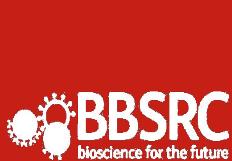
[TGAC/COP0-production](#)





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