

Onyx | JupyterLab Extension

CLIMB-TRE

None

Table of contents

1. JupyterLab Extension	3
1.1 JupyterLab Extension for Onyx	3
1.2 Installation	4
1.3 Graphical User Interface	6

1. JupyterLab Extension

1.1 JupyterLab Extension for Onyx

1.1.1 Introduction

This is the documentation for [Onyx-extension](#), an extension to [JupyterLab](#) that provides:

- ⌚: Access to the [Onyx GUI](#), a graphical user interface for interacting with the [Onyx](#) database.
- 🔗: Links to the [CLIMB-TRE documentation](#).

Onyx is being developed as part of the [CLIMB-TRE](#) project.

The screenshot shows the Onyx extension integrated into a JupyterLab interface. The top navigation bar includes File, Edit, View, Run, Kernel, Tabs, Settings, Help, and a tab for synthSCAPE | Records. The main area displays a table titled "Records | Synthetic dataset for mSCAPE". The table has columns: climb_id, published_date, site, platform, input_type, sample_source, sample_type, received_date, ingest_report, and methods. A sidebar on the left contains a "Filter" section with several applied filters: input_type == specimen, published_date > 2025-01-01, classifier_calls human_readable == Bamfordvirae, and classifier_calls count_descendants > 10. Below the filter is a "Summarise" section. At the bottom of the sidebar is a "Copy CLI Command" button. The bottom right corner shows pagination: 1 to 50 of 57, Page 1 of 2, and Options.

1.1.2 Contents

Installation

Learn how to install the extension, or build it manually for development.

Graphical User Interface

Quick Start

Learn how to launch and navigate the Onyx interface.

Querying Data

Learn how to filter, summarise and export records and analyses.

Profiles & Sites

Learn how to view your profile, project permissions, latest activity, and other users from your site.

1.2 Installation

Guidance for installing the Onyx JupyterLab extension, or building it manually for development.

Usage within CLIMB JupyterLab Servers

If you are running a CLIMB JupyterLab server, you **do not** need to install the extension, as it comes pre-configured in your environment.

If you cannot see the most up-to-date version of the Onyx JupyterLab extension, this is because you will have previously installed your own version manually.

To revert your Onyx JupyterLab extension to the managed up-to-date version, navigate to your terminal and run:

```
$ pip uninstall climb-onyx-gui
```

And restart your JupyterLab server.

1.2.1 Install from PyPI

Assuming you have JupyterLab installed:

```
$ pip install climb-onyx-gui
```

Otherwise:

```
$ pip install "jupyterlab>=3" climb-onyx-gui
```

1.2.2 Build from source

Clone the repository:

```
$ git clone https://github.com/CLIMB-TRE/onyx-extension.git
$ cd onyx-extension/
```

Ensure you have Miniconda (or an alternative conda installer) available. Installation instructions for Conda can be found [here](#).

Create and activate a conda environment with JupyterLab and NodeJS:

```
$ conda create -n jupyterlab-ext -c conda-forge jupyterlab=4 nodejs=20
$ conda activate jupyterlab-ext
```

Install the extension dependencies with the JupyterLab package manager `jlpm`:

```
$ jlpm install
```

Build the extension and install it:

```
$ jlpm run build
$ pip install -ve .
```

Optionally, copy and edit `.env.example` with `ONYX_DOMAIN` and `ONYX_TOKEN` for your development instance of Onyx:

```
$ cp .env.example .env
$ source .env # After editing
```

You can now launch JupyterLab with:

```
$ jupyter lab
```

And the Onyx extension will be ready on the launcher.

1.2.3 Local development

If you wish to develop the extension, ensure you have followed the above steps to build, install and run the extension from source.

From there, you can simply modify the extension code and dependencies, and reinstall/rebuild the extension by executing:

```
$ jlpm install && jlpm run build && pip install -ve .
```

and then relaunching JupyterLab.

1.2.4 Troubleshooting

If you are seeing the frontend extension, but it is not working, check that the server extension is enabled with:

```
jupyter server extension list
```

If the server extension is installed and enabled, but you are not seeing the frontend extension, check the frontend extension is installed with:

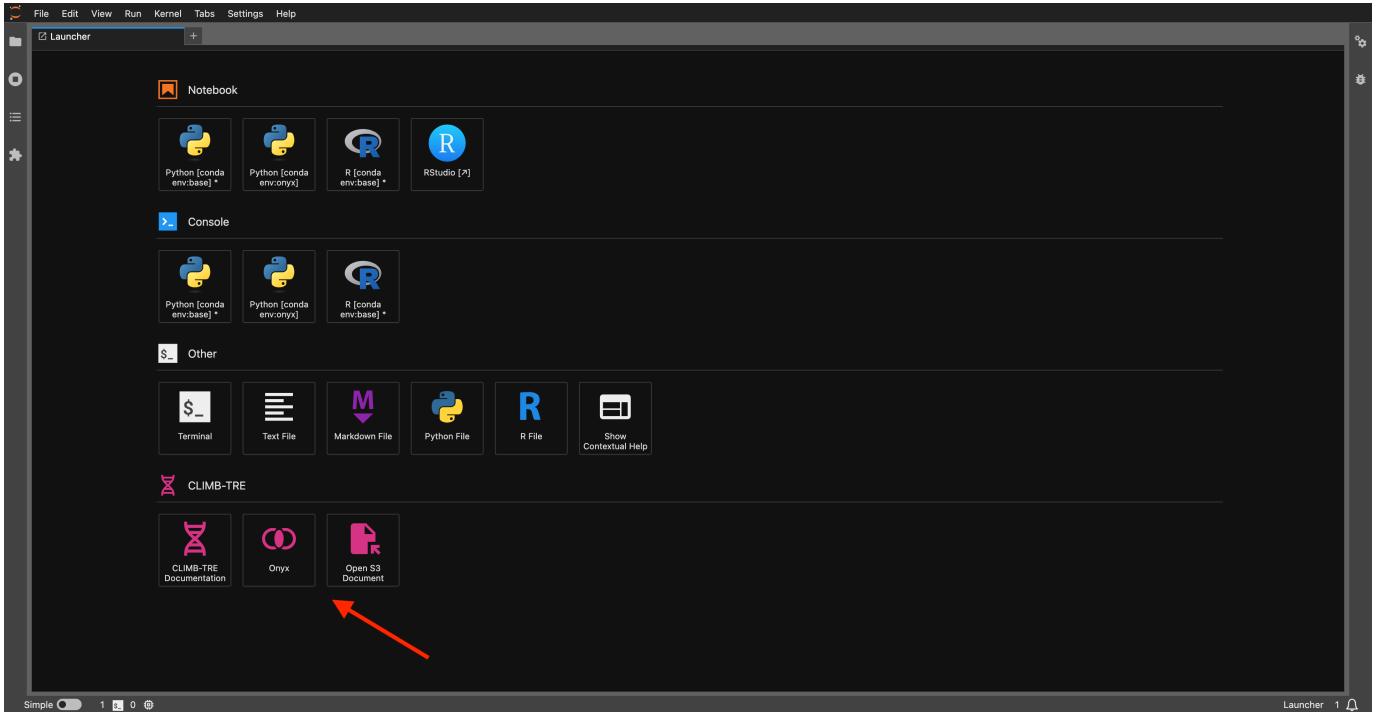
```
jupyter labextension list
```

1.3 Graphical User Interface

1.3.1 Quick Start

Launching Onyx

To open a new instance of Onyx, open the JupyterLab launcher and click the  Onyx panel:



This will open Onyx:

The screenshot shows the Onyx interface with the 'Records' tab selected. The main area displays a table of records with columns: climb_id, published_date, site, biosample..., biosample_so..., run_id, platform, input_type, specimen_type, control_type, and sample. The table lists 16 rows of synthetic dataset records. On the left, there's a 'Filter' sidebar and a 'Summarise' section. At the bottom, there are buttons for 'Copy CLI Command' and navigation links like '1 to 50 of 8,310', 'Page 1 of 167', and 'Options'.

Tip

You can open multiple instances of Onyx, and these will be persisted within your current JupyterLab workspace.

Navigating the Header



Looking at the header, from left to right we have the following options:

- **Project: synthSCAPE**
- This dropdown shows the current active project. Click this to select a different project.
- **User: tobrier.synthscape**
- This shows the user you are authenticated as. Click this to view the profile page.
- **Site: synthscape-admins**
- This shows the site you are a member of. Click this to view the site page.
- **Version: 0.12.5**
- This shows the version of the JupyterLab extension that is currently running.
- **Records**
- Click this to view records for the current project.
- **Analyses**
- Click this to view analyses for the current project.
- **Graphs**
- Click this to view the graph dashboard for the current project.
- **🌙**
- Click this slider to switch between light and dark mode for Onyx.
- **⌚**
- Click this to view your most recently viewed records and analyses.

1.3.2 Querying Data

Records and analyses share the same interface and functionality for browsing.

This includes:

- A **Search** bar, for basic substring matching against visible fields.
- The **Filter** panel, for adding filters against visible, non-visible and nested fields.
- The **Summarise** panel, for computing the number of items per summary group, as specified by the selected fields.
- The **Copy CLI Command**, for copying the current filters and summary fields into a command for the Onyx [command-line interface](#).
- The results panel, **Records** or **Analyses**, that displays results matching the current query. Here, results can be re-ordered, as well as exported via the table **Options** dropdown. The **Edit Columns** button can also be used to change the returned columns.

We will now learn how to filter, aggregate and export data using this interface.

Filtering Data

Info

synthSCAPE is an Onyx project within [CLIMB-TRE](#) for hosting simulated metagenomic data as part of [mSCAPE](#), a world-leading initiative trialling the use of metagenomic data for public health surveillance.

You can find the metadata schema for the synthSCAPE Onyx project [here](#).

DEFINING THE QUERY

We are going to add filters on the `synthSCAPE` dataset to solve the following problem:

Query

Match all synthSCAPE records from 2025 that have a sequence purpose, a run ID of either R-14EC71EBA7 or R-F42A056185, and contain at least 100 reads of Influenza A Virus (taxon ID 11320).

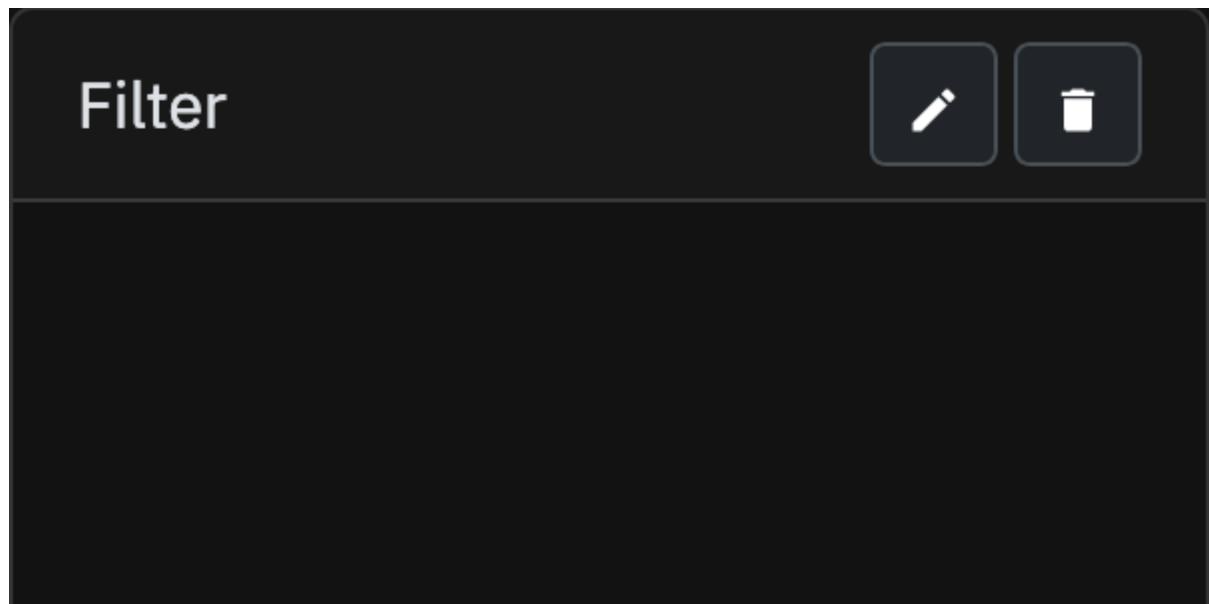
This query can be broken down into the following criteria:

1. The `published_date` must be greater than or equal to `2025-01-01`.
2. The `sequence_purpose` must not be blank.
3. The `run_id` must be either `R-14EC71EBA7` or `R-F42A056185`.
4. Each record's `classifier_calls` must contain *at least* one entry matching the condition:
 - `(taxon_id == 11320) AND (count_descendants >= 100)`

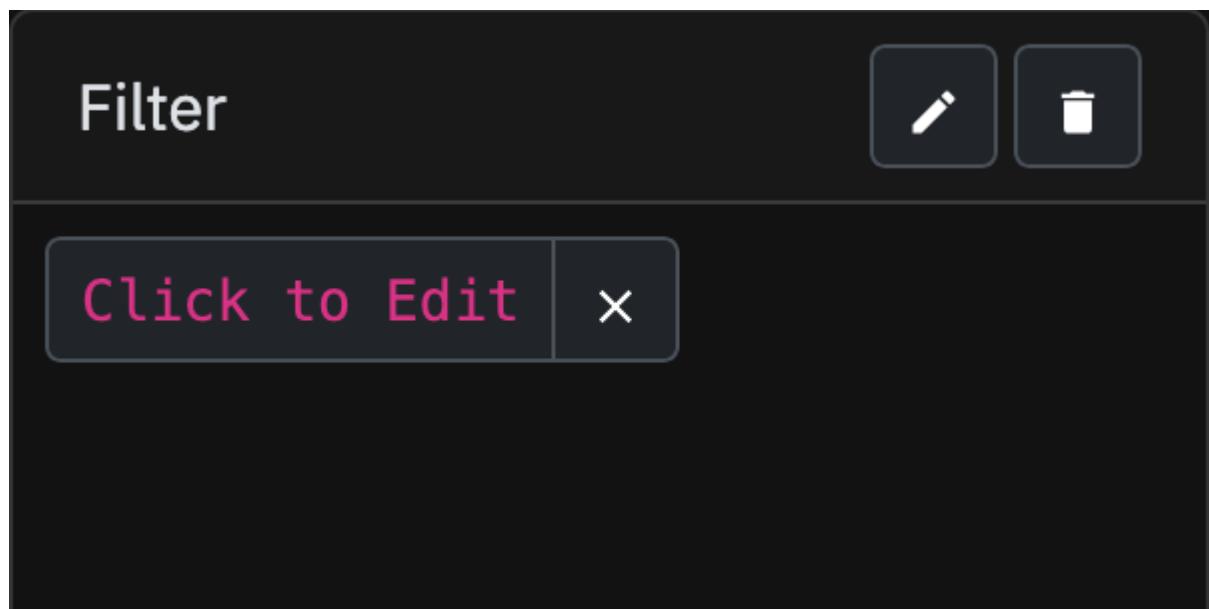
BUILDING THE QUERY

Adding a Filter

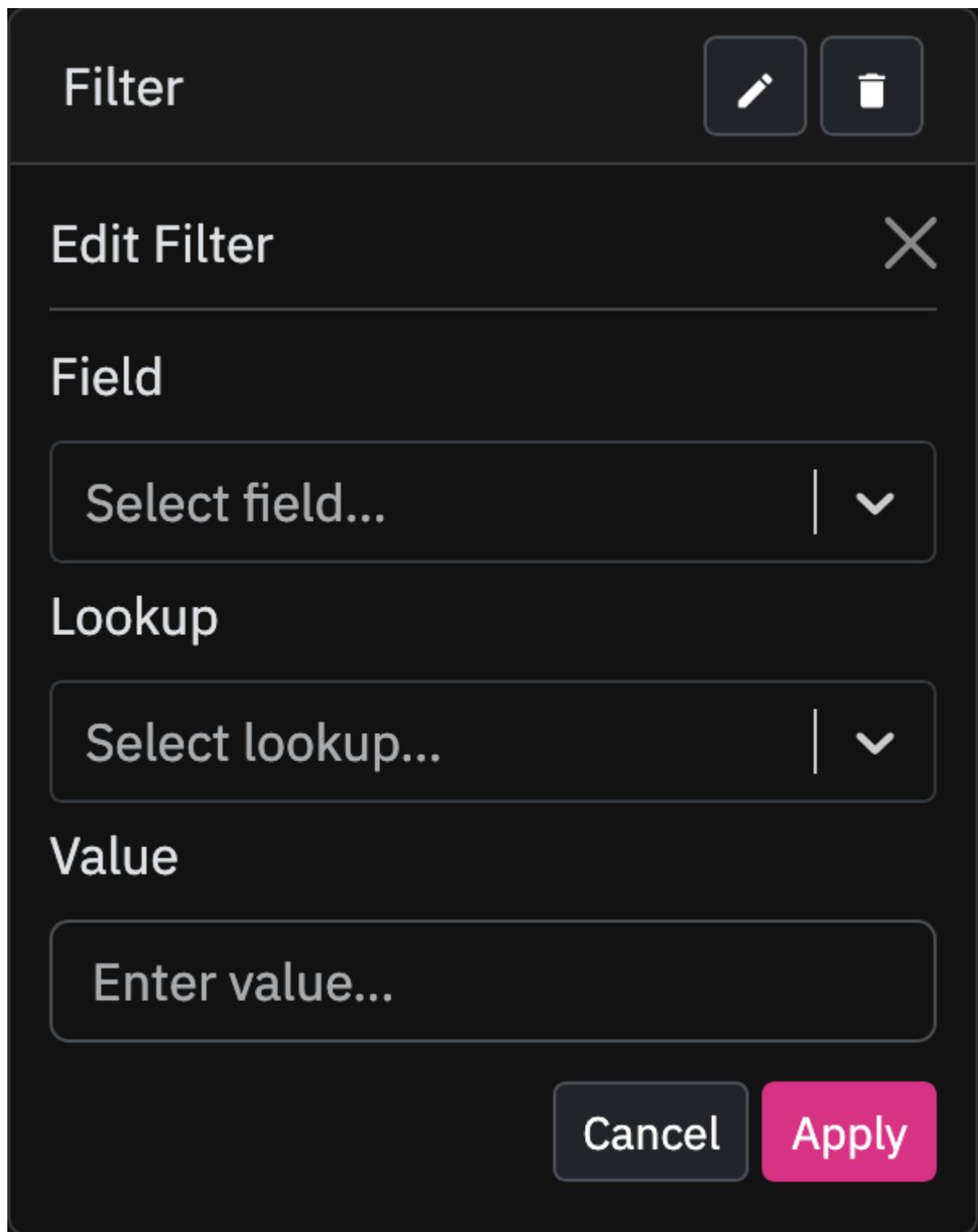
To add a new filter, click the  icon on the `Filter` panel:



This creates an empty filter with the title `Click to Edit`.

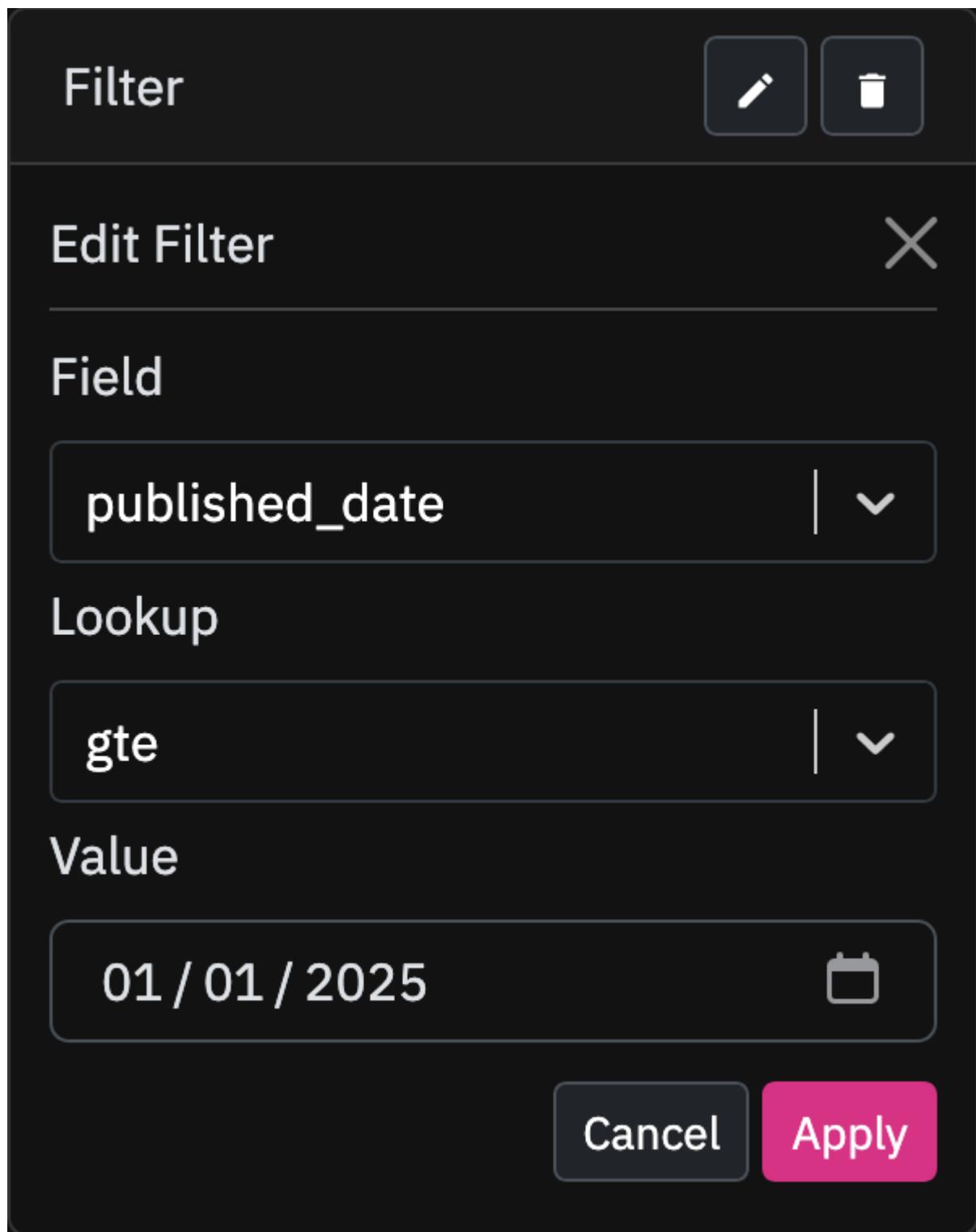


Clicking on this filter will open its settings:



We will edit the filter as following:

- Set the field to `published_date`.
- Set the lookup to `gte` (greater than or equal).
- Set the value to `2025-01-01`.



Then hit `Apply` to filter to the dataset:

Onyx Project: synthSCAPE User: tobrier.synthscape Site: synthscape-admins Version: 0.12.5

Records Analyses Graphs

Search records... Search

Filter

published_date >= 2025-01-01

Summarise

Copy CLI Command

Records | Synthetic dataset for mSCAPE

Edit Columns

climb_id	published_date	site	biosample_id	biosample_source	run_id	platform	input_type	specimen_type
C-F8D7EB6FEE	2025-01-09	synthscape	B-B9F7EDE4B2		R-AA301DAB53	ont	specimen	respiratory_infect...
C-0027D6F2AC	2025-01-09	synthscape	B-82DCBB97AA		R-AA301DAB53	ont	specimen	respiratory_infect...
C-AA769762B3	2025-01-09	synthscape	B-AFB66D4B93		R-AA301DAB53	ont	specimen	respiratory_infect...
C-F5F54B11EA	2025-01-09	synthscape	B-28CDFDF7DB		R-AA301DAB53	ont	specimen	respiratory_infect...
C-9FEBAB0BBB1	2025-01-09	synthscape	B-02B6C7787E		R-AA301DAB53	ont	specimen	respiratory_infect...
C-99D47D20FF	2025-01-09	synthscape	B-6DFD42A0B2		R-AA301DAB53	ont	specimen	respiratory_infect...
C-51D6AB42F2	2025-01-09	synthscape	B-A52A15BD6D		R-AA301DAB53	ont	specimen	respiratory_infect...
C-2EA2A628A0	2025-01-09	synthscape	B-F279AA45C4		R-AA301DAB53	ont	specimen	respiratory_infect...
C-260C52874F	2025-01-09	synthscape	B-20244AF8C5		R-AA301DAB53	ont	specimen	respiratory_infect...
C-19EB30A317	2025-01-09	synthscape	B-9DB9DCBC07		R-AA301DAB53	ont	specimen	respiratory_infect...
C-8593519501	2025-01-09	synthscape	B-9A49772A9B		R-AA301DAB53	ont	specimen	respiratory_infect...
C-12292047CA	2025-01-09	synthscape	B-744FFBC13A		R-AA301DAB53	ont	specimen	respiratory_infect...
C-6C20FD8F01	2025-01-09	synthscape	B-C65E590927		R-AA301DAB53	ont	specimen	respiratory_infect...
C-55E2D79259	2025-01-09	synthscape	B-917BBFB90A		R-AA301DAB53	ont	specimen	respiratory_infect...
C-EE972B9C9B	2025-01-09	synthscape	B-D8A86ACA34		R-AA301DAB53	ont	specimen	respiratory_infect...
C-0813AF1C1B	2025-01-09	synthscape	B-DD5855FF87		R-AA301DAB53	ont	specimen	respiratory_infect...

1 to 50 of 5,753 « < Page 1 of 116 > » Options

As we can see, the dataset has been filtered to return only records with a `published_date` greater than or equal to `2025-01-01`.



In this example, we have used the `gte` (greater than or equal) lookup for `published_date`. However, we could also use the `iso_year` lookup and set this to `2025` instead.

More Filters

To add the second filter, we create another filter with:

- Field: `sequence_purpose`
- Lookup: `isnull`
- Value: `false`

And to add the third filter, we create another filter with:

- Field: `run_id`
- Lookup: `in`
- Values: `R-14EC71EBA7, R-F42A056185`

The dataset has now been filtered further:

climb_id	published_date	site	biosample_id	biosample_source	run_id	platform	input_type	specimen_type
C-BB19F1D926	2025-03-01	synthscape	B-317C11E27E	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-7E5BFD07C9	2025-03-01	synthscape	B-39064D52CC	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-23C35A0402	2025-03-01	synthscape	B-2CBOE1D499	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-EB41678978	2025-03-01	synthscape	B-7876788178	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-830ECB201E	2025-03-01	synthscape	B-17932187B5	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-9D4A6EFC86	2025-03-01	synthscape	B-31178E28B8	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-C325E6F12D	2025-03-01	synthscape	B-55E39233D7	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-16187EAB20	2025-03-01	synthscape	B-CE028B9B6	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-DCFBC67DDF	2025-03-01	synthscape	B-CD5F790520	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-C8123E9D11	2025-03-01	synthscape	B-D3DF9836C5	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-793ABBA9E7	2025-03-01	synthscape	B-0432D75982	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-95124C314E	2025-03-01	synthscape	B-825762C839	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-AF48C0B42A	2025-03-01	synthscape	B-DF2819A5BD	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-FB23ACC467	2025-03-01	synthscape	B-73BFA271E4	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-FF819555E1	2025-03-01	synthscape	B-422C06EEF6	R-14EC71EBA7	ont	specimen	respiratory_infect...	
C-FB7CAEE2CC	2025-03-01	synthscape	B-A05184B2EA	R-14EC71EBA7	ont	specimen	respiratory_infect...	

Nested Filters

To match the final requirement, we need to create two **nested filters**:

Nested filter 1:

- Field: `classifier_calls__taxon_id`
- Lookup: `exact`
- Value: `11320`

Nested filter 2:

- Field: `classifier_calls__count_descendents`
- Lookup: `gte`
- Value: `100`

Each record in `synthSCAPE` contains multiple `classifier_calls` entries, that correspond to the taxa identified by [Kraken2](#) within the sample. These `classifier_calls` entries also contain information such as the number of reads matched to each taxon, as well as the [taxonomic rank](#).

When we apply the first nested filter to this `classifier_calls` table, Onyx will return all records which have *at least* one `classifier_call` with `taxon_id == 11320`.

When we apply both nested filters, Onyx will return all records which have *at least* one `classifier_calls` entry matching **both** `taxon_id == 11320` and `count_descendents >= 100`.

QUERY RESULTS

Onyx Project: synthSCAPE User: tobrier.synthscape Site: synthscape-admins Version: 0.12.5

Records Analyses Graphs

Search records... Search

Filter

- published_date >= 2025-01-01
- sequence_purpose ISNULL false
- run_id IN [R-14EC71EBA7, R-F42A056185]
- classifier_calls taxon_id == 11320
- classifier_calls count_descendants >= 100

Summarise

Copy CLI Command

climb_id	published_date	site	biosample_id	biosample_source	run_id	platform	input_type	specimen_type
C-DCF8C67DDF	2025-03-01	synthscape	B-CD5F790520		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-793ABBA9E7	2025-03-01	synthscape	B-0432D75982		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-95124C314E	2025-03-01	synthscape	B-825762C839		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-FB7CAEE2CC	2025-03-01	synthscape	B-A05184B2EA		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-601AB27DD9	2025-03-01	synthscape	B-FB8E208D71		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-616B7011C9	2025-03-01	synthscape	B-5D2BBDF11A		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-AAE979B6A9	2025-03-01	synthscape	B-129285DAFE		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-F45728CB46	2025-03-01	synthscape	B-E378F89975		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-1629A36AE6	2025-03-01	synthscape	B-1E3AC2B74E		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-3B5F0D5BB2	2025-03-01	synthscape	B-8E4EEC3743		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-F8C479877E	2025-03-01	synthscape	B-1243C1A43F		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-0114BF9591	2025-03-01	synthscape	B-CDBB7B95F3		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-AC3C90A546	2025-03-01	synthscape	B-D07E0B4E3C		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-1EBCAEE49B	2025-03-01	synthscape	B-A754E38744		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-8CE828053F	2025-03-01	synthscape	B-3E7B4E7C55		R-14EC71EBA7	ont	specimen	respiratory_infect...
C-24134ADE9D	2025-03-01	synthscape	B-6E852F036E		R-14EC71EBA7	ont	specimen	respiratory_infect...

1 to 50 of 388 Page 1 of 8 Options

As we can see, we have now filtered the dataset from the initial 8310 records down to just 388 records that match the target query.

We can click on the first record, C-DCF8C67DDF, and navigate down to the Classifier Calls table and confirm over 100 reads matching Influenza A Virus :

Onyx Project: synthSCAPE User: tobrier.synthscape Site: synthscape-admins Version: 0.12.5

Records Analyses Graphs

CLIMB ID: C-DCF8C67DDF

Data History Analyses

Classifier Calls

Date:	2025-03-01	Site:	synthscape	Platform:	ont
Details					
Classifier Calls					
Spike In Info					
Taxa Files					
Methods					

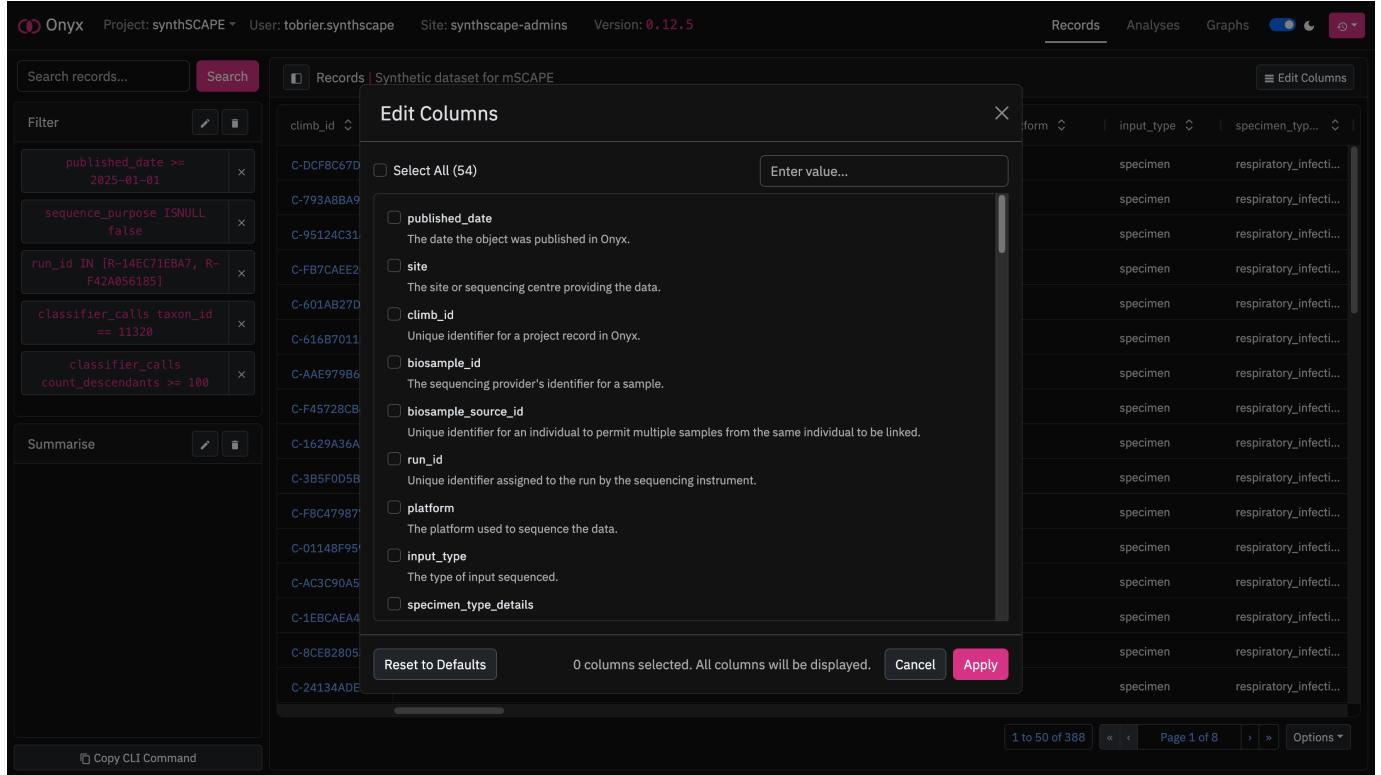
Export to JSON

Table summarising the NCBI taxonomy ids, counts and ranks of all taxa found by the classifier.

EDITING COLUMNS

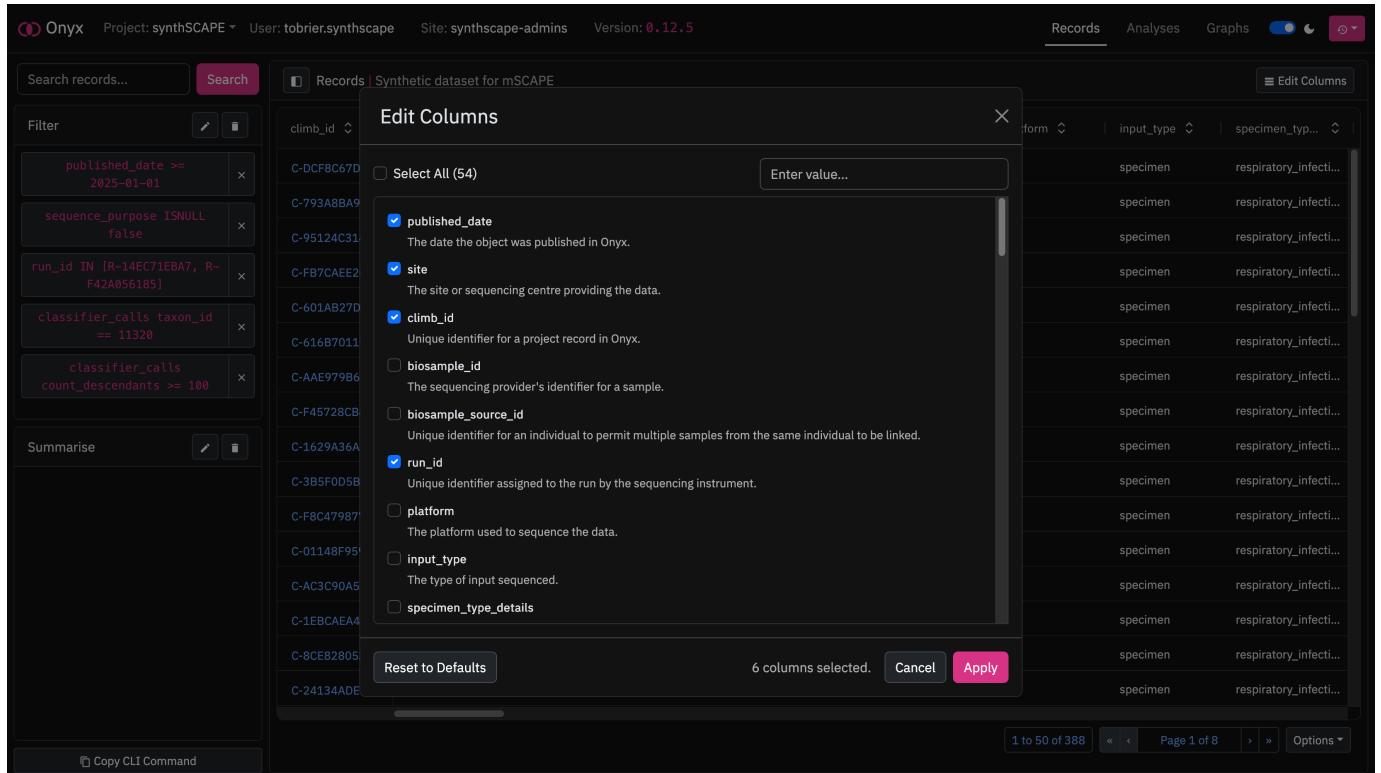
Going back to the results view, we may want to fix the columns that get returned from filtering. This will also speed up any later exports, as we are only exporting the columns that we need.

We can open the columns editor by clicking the  Edit Columns button:



The screenshot shows the Onyx interface with the 'Edit Columns' dialog open. The dialog lists 54 columns, with several checked (published_date, site, climb_id, run_id). The right side shows a preview of the selected columns. At the bottom, there are 'Reset to Defaults', 'Cancel', and 'Apply' buttons.

We will select the columns `climb_id`, `site`, `published_date`, `sequence_purpose` and `ingest_report`:



The screenshot shows the Onyx interface with the 'Edit Columns' dialog open. The checkboxes for published_date, site, climb_id, and run_id are checked. The right side shows a preview of the selected columns. At the bottom, there are 'Reset to Defaults', 'Cancel', and 'Apply' buttons. A message at the bottom indicates 6 columns selected.

Then hit `Apply`, and only the columns we are interested in are returned:

The screenshot shows the Onyx interface with the following details:

- Project:** synthSCAPE
- User:** tobrier/synthscape
- Site:** synthscape-admins
- Version:** 0.12.5
- Records:** The active tab.
- Analyses:** Available tab.
- Graphs:** Available tab.
- Search Bar:** Contains "Search records..." and a pink "Search" button.
- Filter Panel:** Contains several filter conditions:
 - published_date >= 2025-01-01
 - sequence_purpose ISNULL false
 - run_id IN [R-14EC71EBA7, R-F42A056185]
 - classifier_calls taxon_id == 11320
 - classifier_calls count_descendants >= 100
- Summarise Panel:** Contains a single row: "Copy CLI Command".
- Table:** Titled "Records | Synthetic dataset for mSCAPE". It has columns: climb_id, published_date, site, run_id, sequence_purpose, ingest_report. The table lists 38 rows of data.
- Pagination:** Shows "1 to 50 of 388" and "Page 1 of 8".
- Options:** A menu at the bottom-right of the table area.

EXPORTING RESULTS

Exporting to CSV/TSV

We have our filtered records and the columns we are interested in. Now, we want to export this data to a CSV or TSV within JupyterLab for continued analysis.

Navigate down to the `Options` menu at the bottom-right of the results table, and select `Export to CSV/TSV`:

Onyx Project: synthSCAPE User: tobrier.synthscape Site: synthscape-admins Version: 0.12.5

Records Analyses Graphs

Search records... Search

Filter

- published_date >= 2025-01-01
- sequence_purpose ISNULL false
- run_id IN [R-14EC71EBA7, R-F42A056185]
- classifier_calls taxon_id == 11320
- classifier_calls count_descendants >= 100

Summarise

Records | Synthetic dataset for mSCAPE

climb_id	published_date	site	run_id	sequence_purpose	ingest_report
C-DCF8C67DDF	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-793A8BA9E7	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-95124C314E	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-FB7CAEE2CC	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-601AB27DD9	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-616B7011C9	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-AAE979B6A9	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-F45728CB46	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-1629A36AE6	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-3B5F0D5BB2	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-F8C479877E	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-01148F9591	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-AC3C90A546	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-1EBCEA49B	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-8CE828053F	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-24134ADE9D	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish

1 to 50 of 388 Page 1 of 8 Options

Here, we can see a default generated name for the file, and options to switch between CSV and TSV formats:

Onyx Project: synthSCAPE User: tobrier.synthscape Site: synthscape-admins Version: 0.12.5

Records Analyses Graphs

Search records... Search

Filter

- published_date >= 2025-01-01
- sequence_purpose ISNULL false
- run_id IN [R-14EC71EBA7, R-F42A056185]
- classifier_calls taxon_id == 11320
- classifier_calls count_descendants >= 100

Summarise

Records | Synthetic dataset for mSCAPE

Export Data

File Name: synthscape_records_2025-01-01_fals .csv

Warning: If the file already exists, it will be overwritten.

Close Export

climb_id	published_date	site	run_id	sequence_purpose	ingest_report
C-DCF8C67DDF	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-793A8BA9E7	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-95124C314E	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-FB7CAEE2CC	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-601AB27DD9	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-616B7011C9	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-AAE979B6A9	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-F45728CB46	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-1629A36AE6	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-3B5F0D5BB2	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-F8C479877E	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-01148F9591	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-AC3C90A546	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-1EBCEA49B	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-8CE828053F	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish
C-24134ADE9D	2025-03-01	synthscape	R-14EC71EBA7	research	s3://synthscape-publish

1 to 50 of 388 Page 1 of 8 Options

We will keep the default name and choose `.csv`.

Clicking `Export` will then pull the requested data, and create a CSV file in JupyterLab:

The screenshot shows the Onyx interface with a search results table for 'synthSCAPE | Records'. A modal dialog titled 'Export Data' is open, indicating the export has finished and the file name is 'synthscape_records_2025-01-01_false_R-14EC71EBA7_R.csv'. The table lists records with columns: climb_id, published_date, site, run_id, sequence_purpose, and ingest_report. The table shows 388 rows.

Copying to the Onyx CLI

If we wish to transfer our filters to the Onyx command-line interface, we can click Copy CLI Command :

The screenshot shows the Onyx interface with a search results table for 'synthSCAPE | Records'. A modal dialog titled 'Export Data' is open, indicating the export has finished and the file name is 'synthscape_records_2025-01-01_false_R-14EC71EBA7_R.csv'. The table lists records with columns: climb_id, published_date, site, run_id, sequence_purpose, and ingest_report. The table shows 388 rows.

Then paste this into a terminal:

```
File Edit View Run Kernel Tabs Settings Help
synthSCAPE | Records Terminal 2 +
joyvan:~$ onyx filter synthscape --field published_date_gte=2025-01-01 --field sequence_purpose_isnull=false --field run_id_in=R-14EC71EBA7,R-F42A056185 --field classifier_calls_count_descendants_gte=100
```

Note

Copy CLI Command only copies filters and summary fields; it does **not** transfer column and format settings.

We can edit the fields/format with the `--include` and `--format` arguments, and filter the dataset:

```
File Edit View Run Kernel Tabs Settings Help
synthSCAPE | Records Terminal 2 +
joyvan:~$ onyx filter synthscape --field published_date_gte=2025-01-01 --field sequence_purpose_isnull=false --field run_id_in=R-14EC71EBA7,R-F42A056185 --field classifier_calls_count_descendants_gte=100 --include climb_id,published_date,site,run_id,sequence_purpose,ingest_report --format csv
published_date,site,climb_id,run_id,sequence_purpose,ingest_report
2025-03-01,synthscape,C-DCFBC670DF,R-14EC71EBA7,research,s3://synthscape-published-reports/C-793AB8A9E7-syns..._report.html
2025-03-01,synthscape,C-95124C314E,R-14EC71EBA7,research,s3://synthscape-published-reports/C-95124C314E-syns..._report.html
2025-03-01,synthscape,C-FB7CAEE2CC,R-14EC71EBA7,research,s3://synthscape-published-reports/C-FB7CAEE2CC-syns..._report.html
2025-03-01,synthscape,C-601AB7D01C,R-14EC71EBA7,research,s3://synthscape-published-reports/C-601AB7D01C-syns..._report.html
2025-03-01,synthscape,C-0045728C049,R-14EC71EBA7,research,s3://synthscape-published-reports/C-0045728C049-syns..._report.html
2025-03-01,synthscape,C-AE97986A9,R-14EC71EBA7,research,s3://synthscape-published-reports/C-AE97986A9-syns..._report.html
2025-03-01,synthscape,C-F45728C846,R-14EC71EBA7,research,s3://synthscape-published-reports/C-F45728C846-syns..._report.html
2025-03-01,synthscape,C-1629A36AE6,R-14EC71EBA7,research,s3://synthscape-published-reports/C-1629A36AE6-syns..._report.html
2025-03-01,synthscape,C-B85F005B82,R-14EC71EBA7,research,s3://synthscape-published-reports/C-B85F005B82-syns..._report.html
2025-03-01,synthscape,C-F8C479877E,R-14EC71EBA7,research,s3://synthscape-published-reports/C-F8C479877E-syns..._report.html
2025-03-01,synthscape,C-01148F9591,R-14EC71EBA7,research,s3://synthscape-published-reports/C-01148F9591-syns..._report.html
2025-03-01,synthscape,C-AC3C90A546,R-14EC71EBA7,research,s3://synthscape-published-reports/C-AC3C90A546-syns..._report.html
2025-03-01,synthscape,C-1EBCAEAA9B,R-14EC71EBA7,research,s3://synthscape-published-reports/C-1EBCAEAA9B-syns..._report.html
2025-03-01,synthscape,C-8CEB28853F,R-14EC71EBA7,research,s3://synthscape-published-reports/C-8CEB28853F-syns..._report.html
2025-03-01,synthscape,C-2413A40E9D,R-14EC71EBA7,research,s3://synthscape-published-reports/C-2413A40E9D-syns..._report.html
2025-03-01,synthscape,C-335E930083,R-14EC71EBA7,research,s3://synthscape-published-reports/C-335E930083-syns..._report.html
2025-03-01,synthscape,C-30969F6465,R-14EC71EBA7,research,s3://synthscape-published-reports/C-30969F6465-syns..._report.html
2025-03-01,synthscape,C-3AEAD4C8BF,R-14EC71EBA7,research,s3://synthscape-published-reports/C-3AEAD4C8BF-syns..._report.html
2025-03-01,synthscape,C-B0471238F5,R-14EC71EBA7,research,s3://synthscape-published-reports/C-B0471238F5-syns..._report.html
2025-03-01,synthscape,C-0816249119,R-14EC71EBA7,research,s3://synthscape-published-reports/C-0816249119-syns..._report.html
2025-03-01,synthscape,C-FBE668572E,R-14EC71EBA7,research,s3://synthscape-published-reports/C-FBE668572E-syns..._report.html
2025-03-01,synthscape,C-2E6175E998,R-14EC71EBA7,research,s3://synthscape-published-reports/C-2E6175E998-syns..._report.html
2025-03-01,synthscape,C-A50E6CA066,R-14EC71EBA7,research,s3://synthscape-published-reports/C-A50E6CA066-syns..._report.html
2025-03-01,synthscape,C-302158F569,R-14EC71EBA7,research,s3://synthscape-published-reports/C-302158F569-syns..._report.html
2025-03-01,synthscape,C-335E930081,R-14EC71EBA7,research,s3://synthscape-published-reports/C-335E930081-syns..._report.html
2025-03-01,synthscape,C-A004500017,R-14EC71EBA7,research,s3://synthscape-published-reports/C-A004500017-syns..._report.html
2025-03-01,synthscape,C-571C0CC5C9,R-14EC71EBA7,research,s3://synthscape-published-reports/C-571C0CC5C9-syns..._report.html
2025-03-01,synthscape,C-04E9A2540F,R-14EC71EBA7,research,s3://synthscape-published-reports/C-04E9A2540F-syns..._report.html
2025-03-01,synthscape,C-84F93251BF,R-14EC71EBA7,research,s3://synthscape-published-reports/C-84F93251BF-syns..._report.html
2025-03-01,synthscape,C-7FE3B10EB,E,R-14EC71EBA7,research,s3://synthscape-published-reports/C-7FE3B10EB,E-syns..._report.html
2025-03-01,synthscape,C-7F3E31080E,R-14EC71EBA7,research,s3://synthscape-published-reports/C-7F3E31080E-syns..._report.html
2025-03-01,synthscape,C-B8575A5945,R-14EC71EBA7,research,s3://synthscape-published-reports/C-B8575A5945-syns..._report.html
2025-03-01,synthscape,C-830DFE8248,R-14EC71EBA7,research,s3://synthscape-published-reports/C-830DFE8248-syns..._report.html
2025-03-01,synthscape,C-DAE8BA843,R-14EC71EBA7,research,s3://synthscape-published-reports/C-DAE8BA843-syns..._report.html
2025-03-01,synthscape,C-34B01DCF16,R-14EC71EBA7,research,s3://synthscape-published-reports/C-34B01DCF16-syns..._report.html
2025-03-01,synthscape,C-2B202E04,R-14EC71EBA7,research,s3://synthscape-published-reports/C-2B202E04-syns..._report.html
2025-03-01,synthscape,C-04E8CA646,R-14EC71EBA7,research,s3://synthscape-published-reports/C-04E8CA646-syns..._report.html
2025-03-01,synthscape,C-245B0930D1,R-14EC71EBA7,research,s3://synthscape-published-reports/C-245B0930D1-syns..._report.html
2025-03-01,synthscape,C-364CA78EC4,R-14EC71EBA7,research,s3://synthscape-published-reports/C-364CA78EC4-syns..._report.html
```

1.3.3 Profiles & Sites

Profile Page

To view more about your profile, click on the `User: <your-username>` header:

climb_id	published_date	site	biosample_id	biosample_source	run_id	platform	input_type	specimen_type	control_type	sample_size
C-55E37DD684	2024-09-24	synthscape	B-778734BE19		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-52A7FFE39F	2024-09-24	synthscape	B-442910831D		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-876A0D6C0	2024-09-24	synthscape	B-A82A0E4C7D		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-3CB3B2E517	2024-09-24	synthscape	B-F6492CF34F		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-5A7267768E	2024-09-24	synthscape	B-11F36EB849		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-406E26D650	2024-09-24	synthscape	B-A9BD525740		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-3890D5FE69	2024-09-24	synthscape	B-1CCD87CA23		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-2BD62F978	2024-09-24	synthscape	B-E9C106CC97		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-E5FA6B7E21	2024-09-24	synthscape	B-9B144D6EF6		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-1649B8610E	2024-09-24	synthscape	B-B08130EF7F		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-0AA03001AC	2024-09-24	synthscape	B-9B1C67A185		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-776BFB9253	2024-09-24	synthscape	B-AD906F5316		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-BDDFB60875	2024-09-24	synthscape	B-F78742F349		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-9FB81E3631	2024-09-24	synthscape	B-3AFD17CD7C		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk
C-8C6E528B67	2024-09-24	synthscape	B-E19A862AA4F		R-A5DC09AEAE	ont	specimen	respiratory_infecti...		lk

This will open the profile page, where you can see:

- Details**: Key details about your account.
- Project Permissions**: Projects that you have access to, and actions you can carry out on that project.
- Recent Activity**: Your most recent 50 API requests, with status/errors/execution time information.

Date	Endpoint	Method	Status Code	Execution Time (ms)	Errors
Mon, 18 Aug 2025 14:54:54 GMT	/projects/synthscape/count/	GET	200 (OK)	48	
Mon, 18 Aug 2025 14:54:54 GMT	/projects/synthscape/	GET	200 (OK)	99	
Mon, 18 Aug 2025 14:54:53 GMT	/projects/synthscape/fields/	GET	200 (OK)	68	
Mon, 18 Aug 2025 14:54:53 GMT	/projects/synthscape/analysis/f...	GET	200 (OK)	41	
Mon, 18 Aug 2025 14:54:53 GMT	/projects/	GET	200 (OK)	21	
Mon, 18 Aug 2025 14:54:53 GMT	/accounts/profile/	GET	200 (OK)	17	
Mon, 18 Aug 2025 14:54:53 GMT	/projects/lookups/	GET	200 (OK)	16	
Mon, 18 Aug 2025 14:54:53 GMT	/projects/types/	GET	200 (OK)	15	
Mon, 18 Aug 2025 14:41:36 GMT	/projects/synthscape/count/	GET	200 (OK)	57	
Mon, 18 Aug 2025 14:41:36 GMT	/projects/synthscape/	GET	200 (OK)	160	
Mon, 18 Aug 2025 14:41:36 GMT	/projects/synthscape/fields/	GET	200 (OK)	87	
Mon, 18 Aug 2025 14:41:36 GMT	/projects/synthscape/analysis/f...	GET	200 (OK)	39	
Mon, 18 Aug 2025 14:41:35 GMT	/projects/	GET	200 (OK)	39	
Mon, 18 Aug 2025 14:41:35 GMT	/accounts/profile/	GET	200 (OK)	35	
Mon, 18 Aug 2025 14:41:35 GMT	/projects/lookups/	GET	200 (OK)	36	

Site Page

To view more about your site, click on the Site: <your-site> header:

climb_id	published_date	site	biosample_id	biosample_soh	run_id	platform	input_type	specimen_type	control_type	sample_id
C-55E37DD684	2024-09-24	synthscape	B-778734BE19		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-52A7FFE39F	2024-09-24	synthscape	B-442910B31D		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-876AF0D6C0	2024-09-24	synthscape	B-A82A0E4C7D		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-3C83B2E917	2024-09-24	synthscape	B-F6492CF34F		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-5A7267768E	2024-09-24	synthscape	B-11F36EB849		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-406E26D650	2024-09-24	synthscape	B-A9BD525740		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-3890D5FE69	2024-09-24	synthscape	B-1CCD87CA23		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-2BDC62F978	2024-09-24	synthscape	B-E9C106CC97		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-E5FA6B7E21	2024-09-24	synthscape	B-9B144D6EF6		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-1649B8610E	2024-09-24	synthscape	B-B08130EEF7		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-0AA03001AC	2024-09-24	synthscape	B-9B1C67A185		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-776FB9253	2024-09-24	synthscape	B-AD906F5316		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-BDDFB60875	2024-09-24	synthscape	B-F78742F349		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-9FB81E3631	2024-09-24	synthscape	B-3AFD17CD7C		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	
C-8C6E528867	2024-09-24	synthscape	B-E19A862A4F		R-A5DC09AEAE	ont	specimen	respiratory_infecti...	lk	

This will open the site page, where you can see:

- Site Users : Users from your site who have access to *at least* one of the same projects.

User	Site	Email
synthscape-admins		
synthscape-admins		
synthscape-admins		

Table showing users from the same site, who have access to the same projects.