

Harvard OMERO workshop 2026

Summary

Import into OMERO

- Covering basic and advanced import options

OMERO core concepts I

- Data management
- Metadata, Users and groups

OMERO core concepts II

- Viewers: OMERO.iviewer
- Import of metadata - CSV import scripts

OMERO.figure

Analysis of Images in OMERO

- Analysis with 3rd party tools - principles
- QuPath and OMERO (optional)
- Analysis with Fiji: manual
- Analysis with Fiji: scripting

Content

Import

In this section we will cover the various import options such as the import with or without data transfer and synchronous vs. asynchronous.

Desktop client install and import

For these 2 workflows shown in the workshop, see

<https://omero-guides.readthedocs.io/en/latest/upload/docs/import-desktop-client.html> and
<https://omero-guides.readthedocs.io/en/latest/upload/docs/import-desktop-client.html#import-for-another-user>

Command line import, bulk import, in-place import

These import sections not covered in the workshop can be found at

<https://omero-guides.readthedocs.io/en/latest/upload/docs/import.html>

OMERO core concepts

Data management and cooperation

See <https://omero-guides.readthedocs.io/en/latest/introduction/docs/data-management.html>

Viewing images (OMERO.iviewer)

<https://omero-guides.readthedocs.io/en/latest/iviewer/docs/iviewer.html>

Annotate data and filter using annotations

<https://omero-guides.readthedocs.io/en/latest/introduction/docs/annotate.html>

Search

<https://omero-guides.readthedocs.io/en/latest/introduction/docs/search-omero.html>

OMERO figure

Fast creation of publication figures using OMERO.figure

See https://omero-guides.readthedocs.io/en/latest/figure/docs/omero_figure.html

Publication with OMERO

Publication in OMERO is tantamount to moving data into a “Public” group.

See <https://omero-guides.readthedocs.io/en/latest/introduction/docs/data-publication.html>

See

<https://omero-guides.readthedocs.io/en/latest/introduction/docs/data-management.html#move-data-between-groups-owners-of-data>

To create a link to a Project/Dataset/Image in OMERO.web, click on the Project/Dataset/Image in the left-hand side tree. Then, in the right-hand pane, General tab, click on the “chain” icon



and copy the link from there.

Analysis

This part constitutes the core of the training and we will explore the different means OME provides to interact with image and non-image data and how to best integrate these into your workflows.

Analysis with Fiji

- Analysis with Fiji: Java
 - Fiji client side: manual Analysis via UI

- Fiji client side: scripting: Groovy and Macro
- Fiji: Analysis in the cloud: Java and Macro

For setup of the Fiji plugin see

<https://omero-guides.readthedocs.io/en/latest/fiji/docs/installation.html>

For the walkthrough in this workshop, see Fiji chapters

<https://omero-guides.readthedocs.io/en/latest/fiji/docs/installation.html>

https://omero-guides.readthedocs.io/en/latest/fiji/docs/threshold_manual.html

https://omero-guides.readthedocs.io/en/latest/fiji/docs/threshold_scripting_macro_language.htm