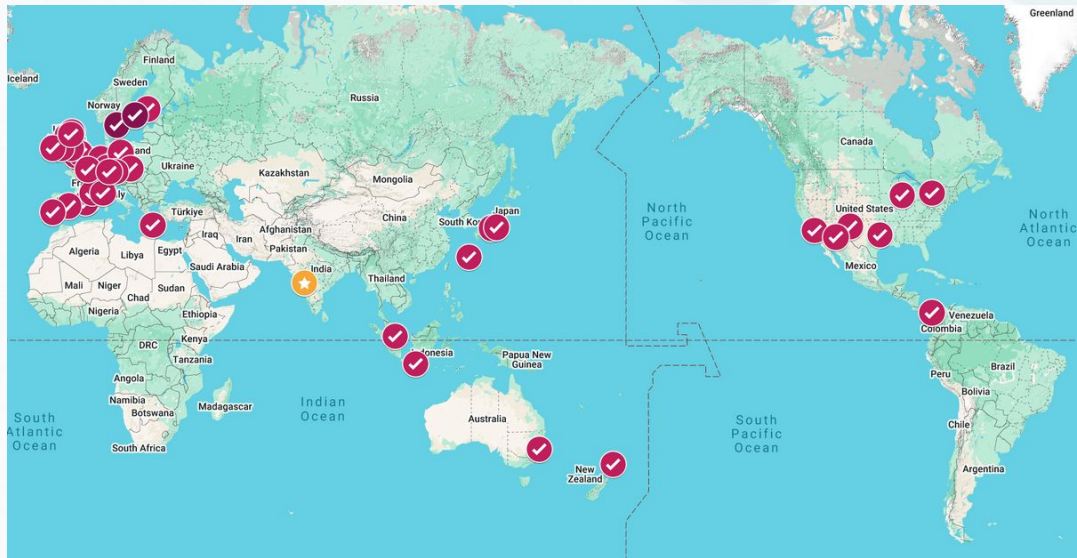


Train the trainer on OMERO OMERO.figure case

OME 2025

OME Team

OME Team trainings



February 2025: Student course assessment

Karolinska Institutet, Stockholm

- **Organizer: Sylvie Le Guyader**

February 2025 OMERO and OMERO.figure workshop

The OME Team gives a public workshop on OMERO and OMERO.figure as part of a three-week course organized by LCI at Karolinska Institutet.

From sample preparation to image analysis

27 January–14 February 2025

At the LCI core facility microscopy course, you will learn all the fundamentals of microscopy and directly apply them to your own experiments:

Dundee

Groups/Users setup



OMERO server in use



December 2024

January 2025

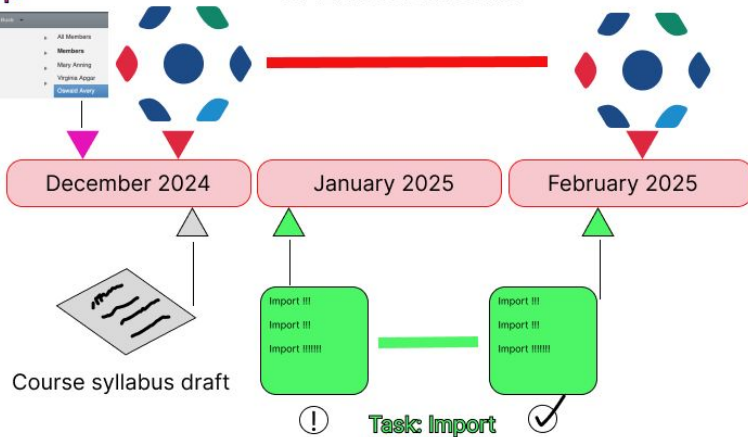
February 2025

Stockholm ...

Groups/Users setup



OMERO server in use



User support email

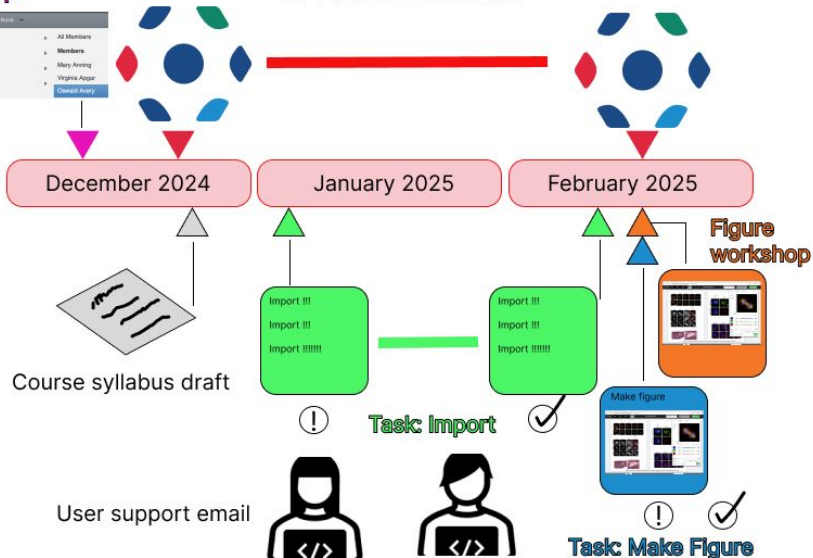


Stockholm

Groups/Users setup



OMERO server in use



User support: FAQs

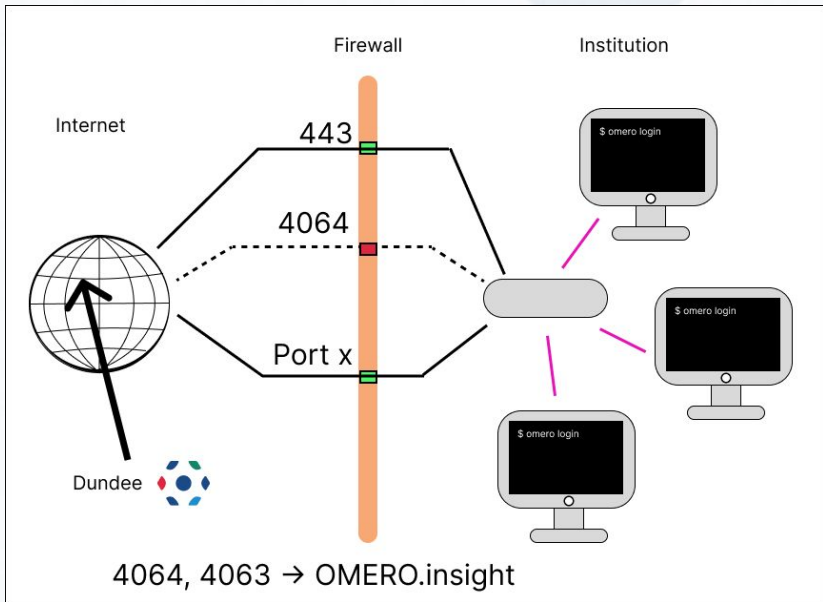
1. Access issues

2. Resolution levels for large images

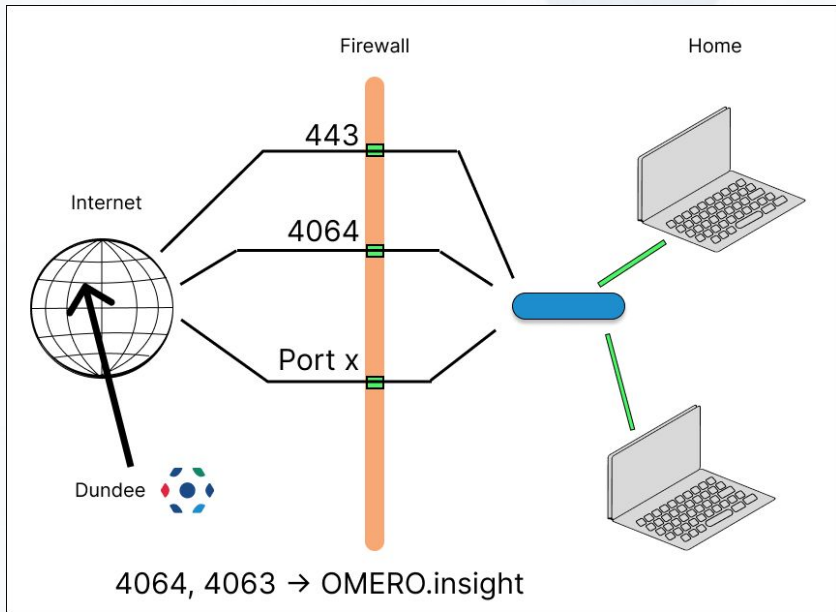
User support: FAQs

Access issues and solutions

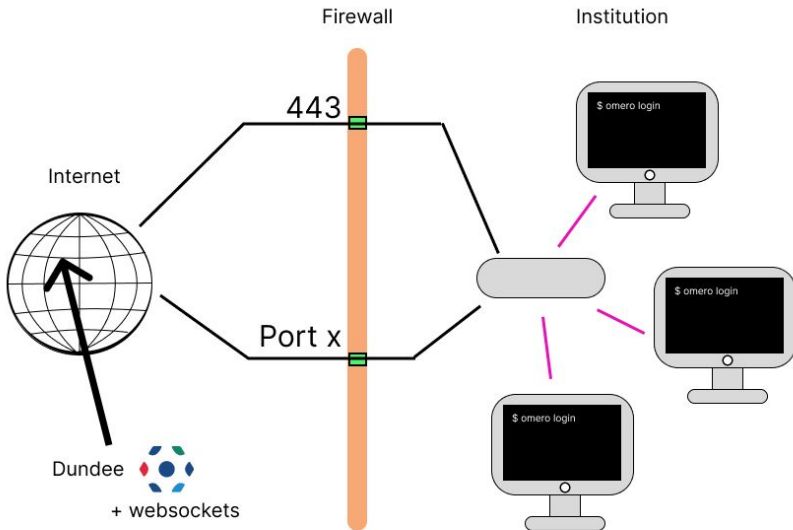
Cannot connect with OMERO.insight



Try import from another network



Websockets solution



443 → OMERO.insight

Websockets solution

- Configuration on the OMERO.server
- User just adjusts the address of the server with “wss://...../omero-ws” motif

<https://omero.readthedocs.io/en/stable/sysadmins/websockets.html>

User support: FAQs

Resolution levels

Missing resolution levels



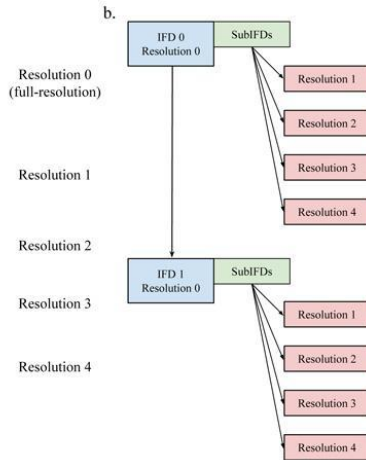
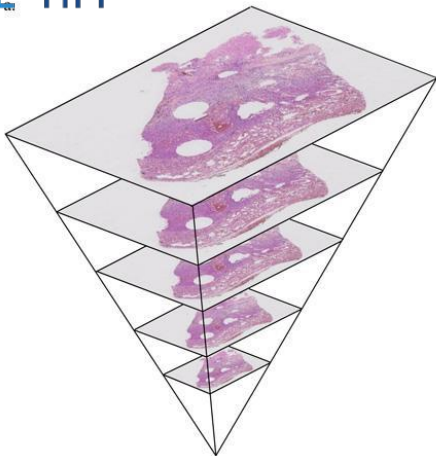
Image Details

Add Description

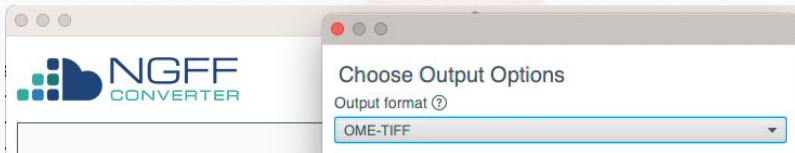
Import Date:	2025-04-09 11:35:09
Dimensions (XY):	5000 x 5000
Pixels Type:	uint8
Pixels Size (XYZ) (μm):	-
Z-sections/Timepoints:	1 x 1
Channels:	0
ROI Count:	0

Solution 1: Convert

OME-TIFF



Solution 1: Convert to OME-TIFF



<https://www.glencoesoftware.com/products/ngff-converter/>

Solution 2: Raise the limit on server ?

<https://omero.readthedocs.io/en/stable/sysadmins/limitations.html#large-images>

Solution 2: Raise the limit on server ?

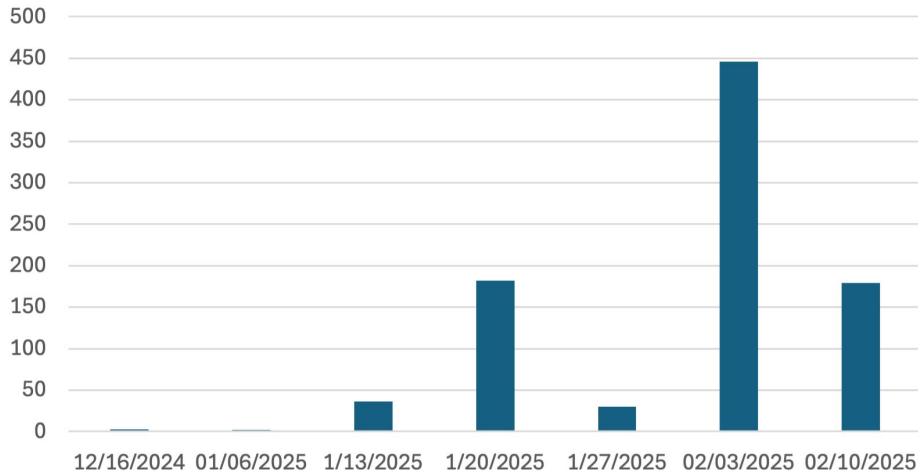
<https://omero.researchlab.org/docs/en/stable/admin/limits/limitations.html#large-images>

"Real" solution ?

1. Yes: Do not produce large images with no resolution levels
2. No: Use smaller images -> necessary for this course

21 new users
(logins)

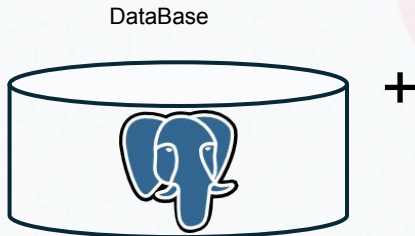
Images imported



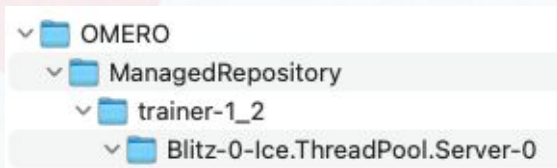
Organize a course yourself

OME Team tooling

Download of Database of the training server with Image data



+



<https://downloads.openmicroscopy.org/images/OMERO.tar.gz>

OME Team tooling

- OMERO.guides – including community workflow contributions



🔗 / External Software and OMERO / Fiji / Segment using ImageJ Macro language [Edit on GitHub](#)

Segment using ImageJ Macro language

Description

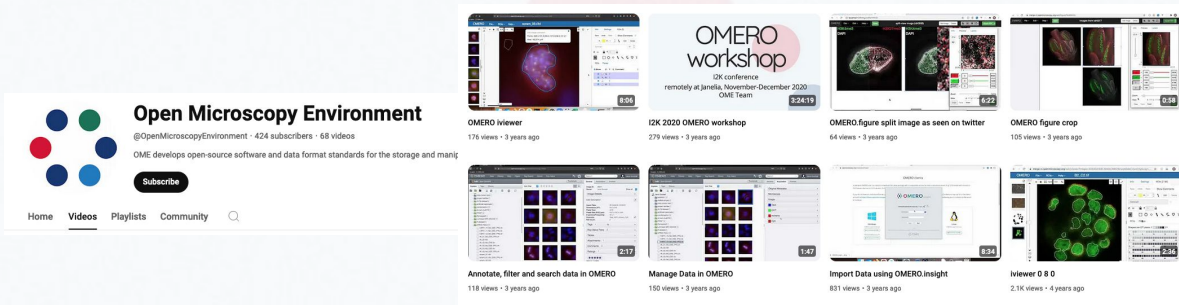
The following workflows should work in Fiji, after it has been correctly set up with the OMERO plugin for Fiji/ImageJ.

In this section we use the ImageJ macro language to access data in OMERO. To interact with OMERO using the **ImageJ macro language**, two extra plugins need to be installed.

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

OME Team tooling

- YouTube Channel – HEAVILY USED DURING LCI COURSE



The image shows a screenshot of the Open Microscopy Environment (OME) YouTube channel page. The channel name is "Open Microscopy Environment" with the handle "@OpenMicroscopyEnvironment", 424 subscribers, and 68 videos. The description states: "OME develops open-source software and data format standards for the storage and manipulation of microscopy data." There is a "Subscribe" button and navigation links for Home, Videos, Playlists, and Community.

Below the channel information is a grid of eight video thumbnails, each with a title, view count, and upload time:

- OMERO iviewer**: 176 views • 3 years ago (8:06)
- IZK 2020 OMERO workshop**: 279 views • 3 years ago (3:24:19)
- OMERO.figure split image as seen on twitter**: 64 views • 3 years ago (6:22)
- OMERO figure crop**: 105 views • 3 years ago (0:58)
- Annotate, filter and search data in OMERO**: 118 views • 3 years ago (2:17)
- Manage Data in OMERO**: 150 views • 3 years ago (1:47)
- Import Data using OMERO.insight**: 831 views • 3 years ago (8:34)
- iviewer 0.8.0**: 2.1K views • 4 years ago (2:36)

<https://www.youtube.com/@OpenMicroscopyEnvironment/videos>

OMERO.figure: meeting



William Moore



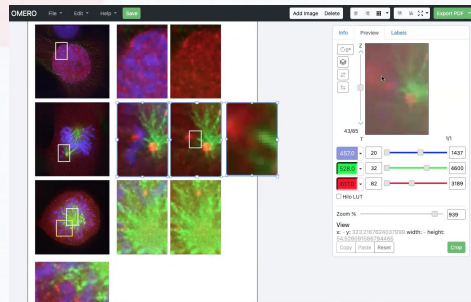
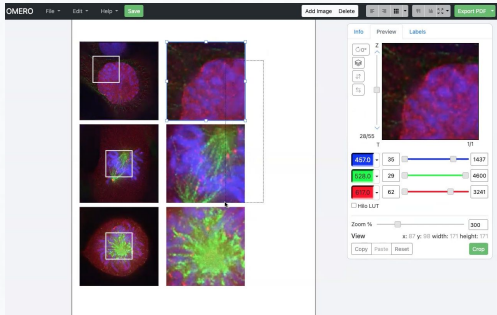
Tom Boissonnet



Remy Dornier

Future directions and needs of OMERO.figure

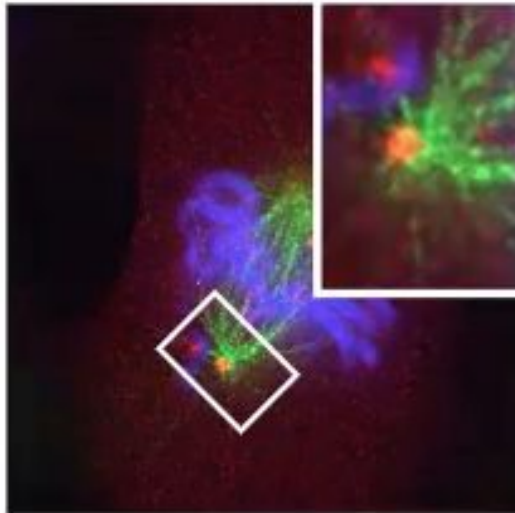
OMERO.figure: new features



Dynamic inset:
William Moore

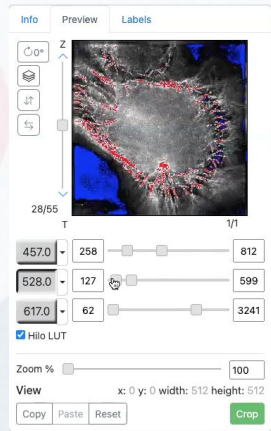
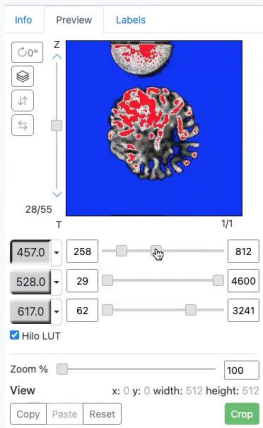
OMERO.figure: new features

Add border:
Remy Dornier



OMERO.figure: new features

HiLo lookup table:
Mina Enayat,
Tom Boissonnet



OMERO.figure: new features

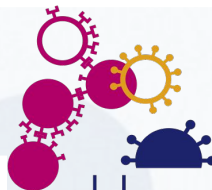
Fill and opacity ROIs: Remy Dornier



Thank you



GLOBAL
BIOIMAGING
growing collaboration



bbsrc
biotechnology and biological sciences
research council