

EastBio Demo/Workshop

The presentation and a PDF version of the workshop are available at <https://downloads.openmicroscopy.org/presentations/2020/EastBio>

Software versions used for this workshop:

- OMERO: 5.6.0
- OMERO.insight: 5.5.8
- OMERO.insight-ij: 5.5.8
- OMERO.iviewer: 0.9.0
- OMERO.figure: 4.2.0
- OMERO.mapr 0.4
- OMERO.parade: 0.2.0
- OMERO.FPBioimage: 0.4.0
- OMERO training scripts: 0.6.2
- OMERO training notebooks: 0.6.0
- OMERO-downloader: 0.2.0
- omero-metadata: 0.5.0
- Bio-Formats: 6.3.1
- Fiji/ImageJ: 2.0.0-rc-69/1.52p

Content

Import

- Manual import only covered

OMERO core concepts

- Data management - Metadata
- Search
- Viewer - OMERO.iviewer
- 3D Viewer

Analysis with 3rd party tools - Fiji

- Analysis with Fiji: manual

Data mining using OMERO.parade

OMERO figure

- How to create quickly figures for publication

Import

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 (for your information only)

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>

Viewing images (3D viewer: OMERO.FPBioimage)

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

Analysis with 3rd party tools

Analysis with Fiji

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 the four 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.html and
https://omero-guides.readthedocs.io/projects/fiji/en/latest/headless_notebook.html

Server side analysis

Server-side scripts (python, for your information only)

https://omero-guides.readthedocs.io/en/latest/scripts/docs/execute_scripts.html

For further information about how to write and manage server-side scripts see

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

OMERO parade

Data mining using OMERO.parade on Projects and Plates

See https://omero-guides.readthedocs.io/en/latest/parade/docs/omero_parade.html

OMERO figure

Fast creation of publication figures using OMERO.figure

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