Data Management with OMERO

Challenges in Image Data Management and Analysis, EMBL Heidelberg, 2016

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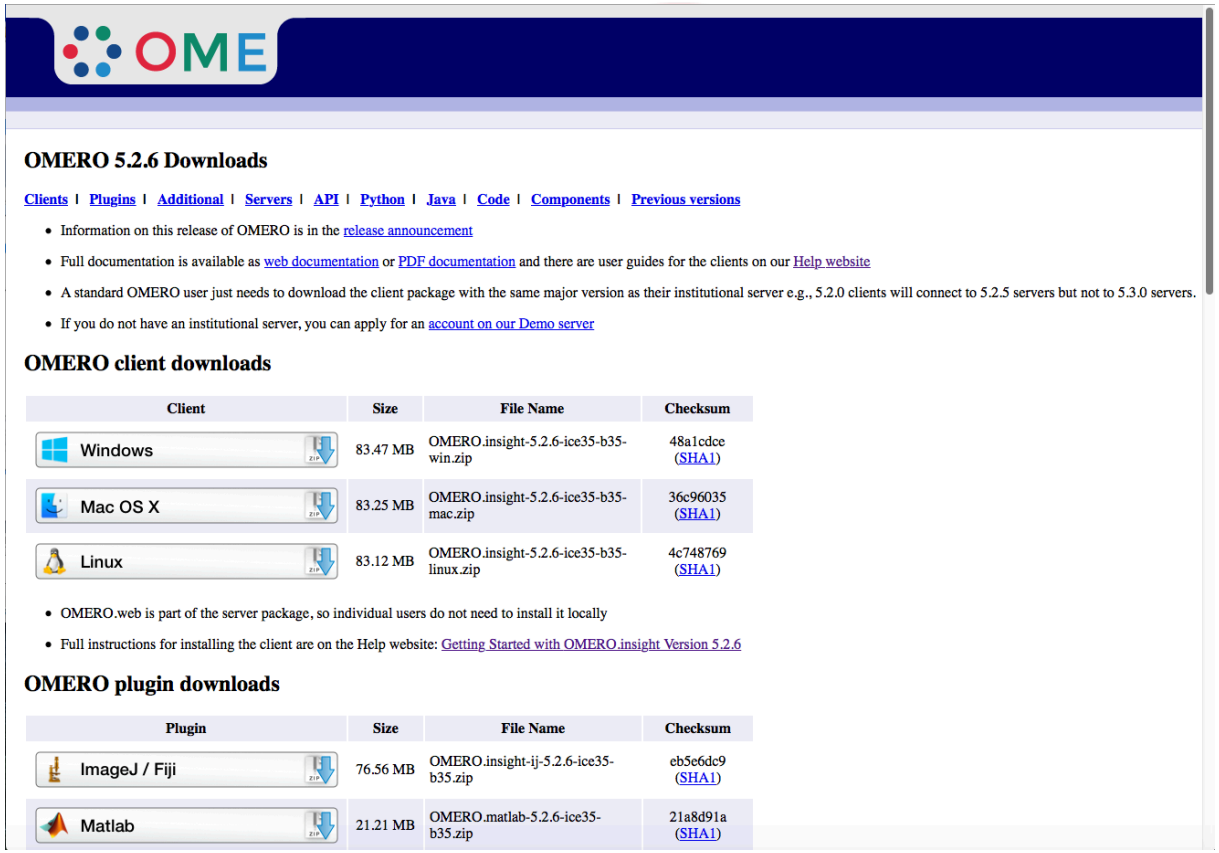
GLOBAL BIOIMAGING
growing collaboration

Outline

- Import Image Data into OMERO (Slides only)
- Image Data Organization with OMERO
- Image Data Annotation with OMERO
- Image Data Annotation and Search with OMERO
- Image Data Analysis with OMERO
- Batch Image Operations with OMERO
- Publishing with OMERO

Download Desktop Client



OME

OMERO 5.2.6 Downloads

Clients | Plugins | Additional | Servers | API | Python | Java | Code | Components | Previous versions

- Information on this release of OMERO is in the release announcement
- Full documentation is available as web documentation or PDF documentation and there are user guides for the clients on our Help website
- A standard OMERO user just needs to download the client package with the same major version as their institutional server e.g., 5.2.0 clients will connect to 5.2.5 servers but not to 5.3.0 servers.
- If you do not have an institutional server, you can apply for an account on our Demo server

OMERO client downloads

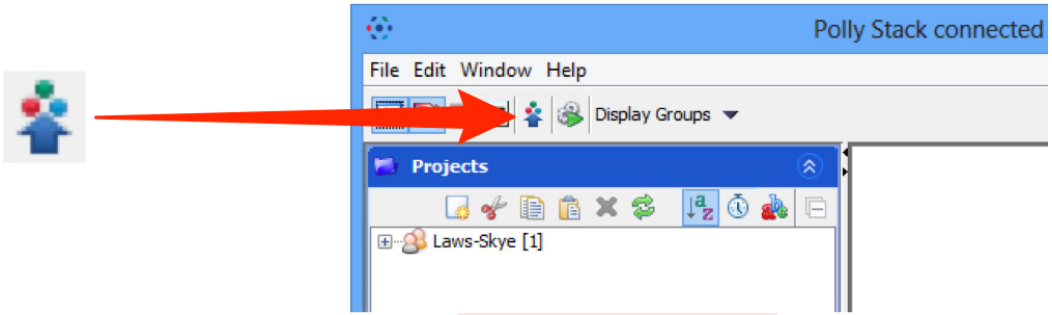
Client	Size	File Name	Checksum
Windows	83.47 MB	OMERO.insight-5.2.6-ice35-b35-win.zip	48a1cdce (SHA1)
Mac OS X	83.25 MB	OMERO.insight-5.2.6-ice35-b35-mac.zip	36c96035 (SHA1)
Linux	83.12 MB	OMERO.insight-5.2.6-ice35-b35-linux.zip	4c748769 (SHA1)

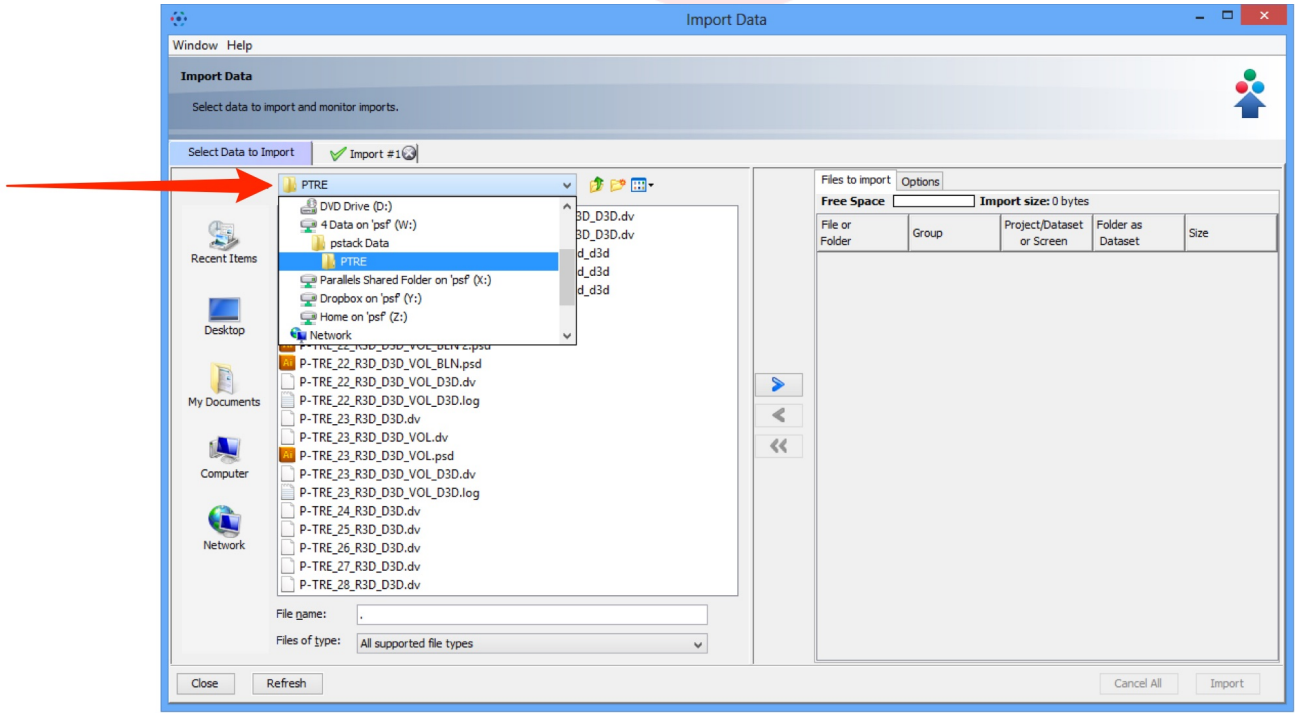
- OMERO.web is part of the server package, so individual users do not need to install it locally
- Full instructions for installing the client are on the Help website: Getting Started with OMERO.insight Version 5.2.6

OMERO plugin downloads

Plugin	Size	File Name	Checksum
ImageJ / Fiji	76.56 MB	OMERO.insight-ij-5.2.6-ice35-b35.zip	eb5e6dc9 (SHA1)
Matlab	21.21 MB	OMERO.matlab-5.2.6-ice35-b35.zip	21a8d91a (SHA1)

Import Image Data into OMERO





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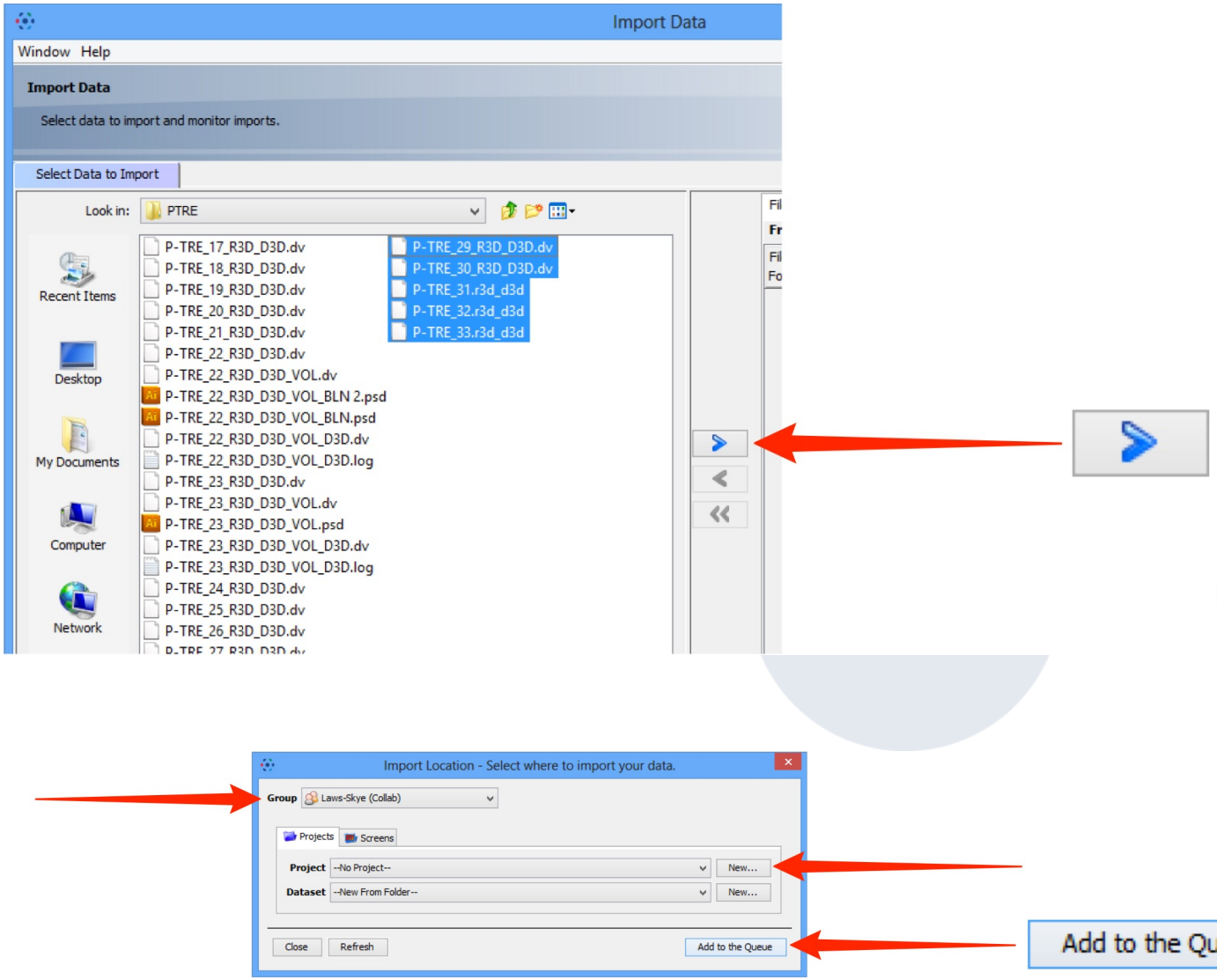


Import Image Data into OMERO

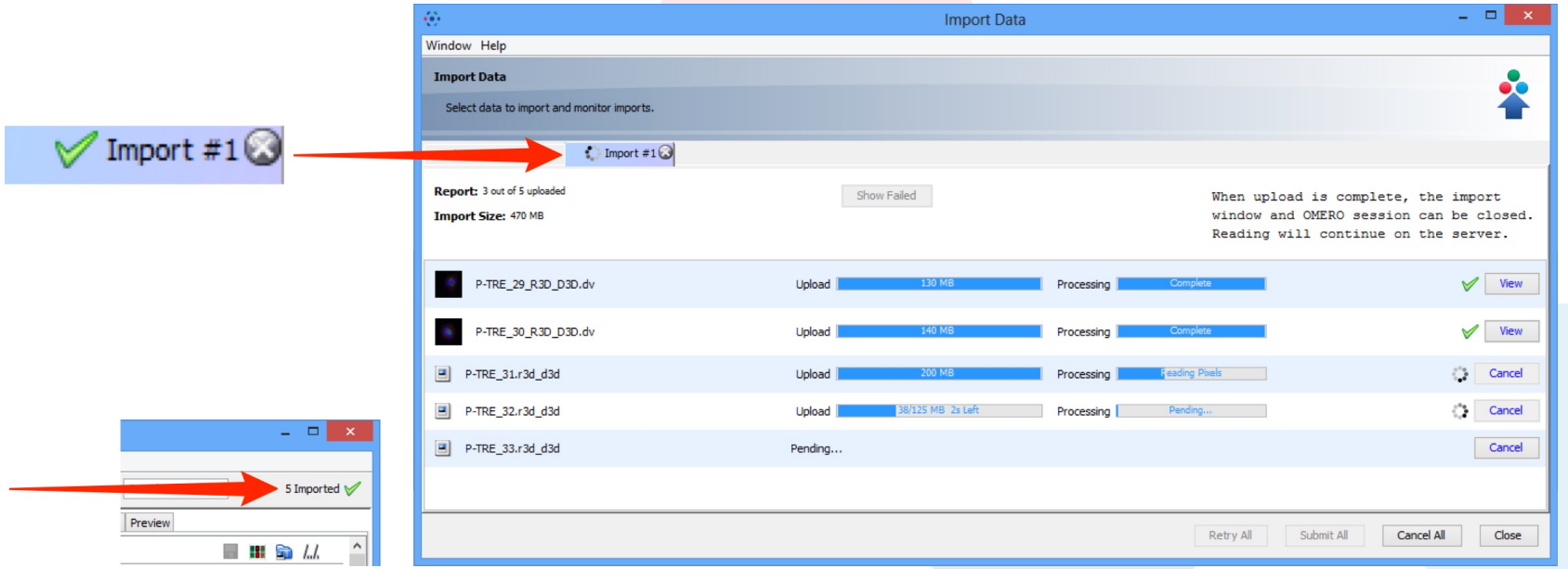
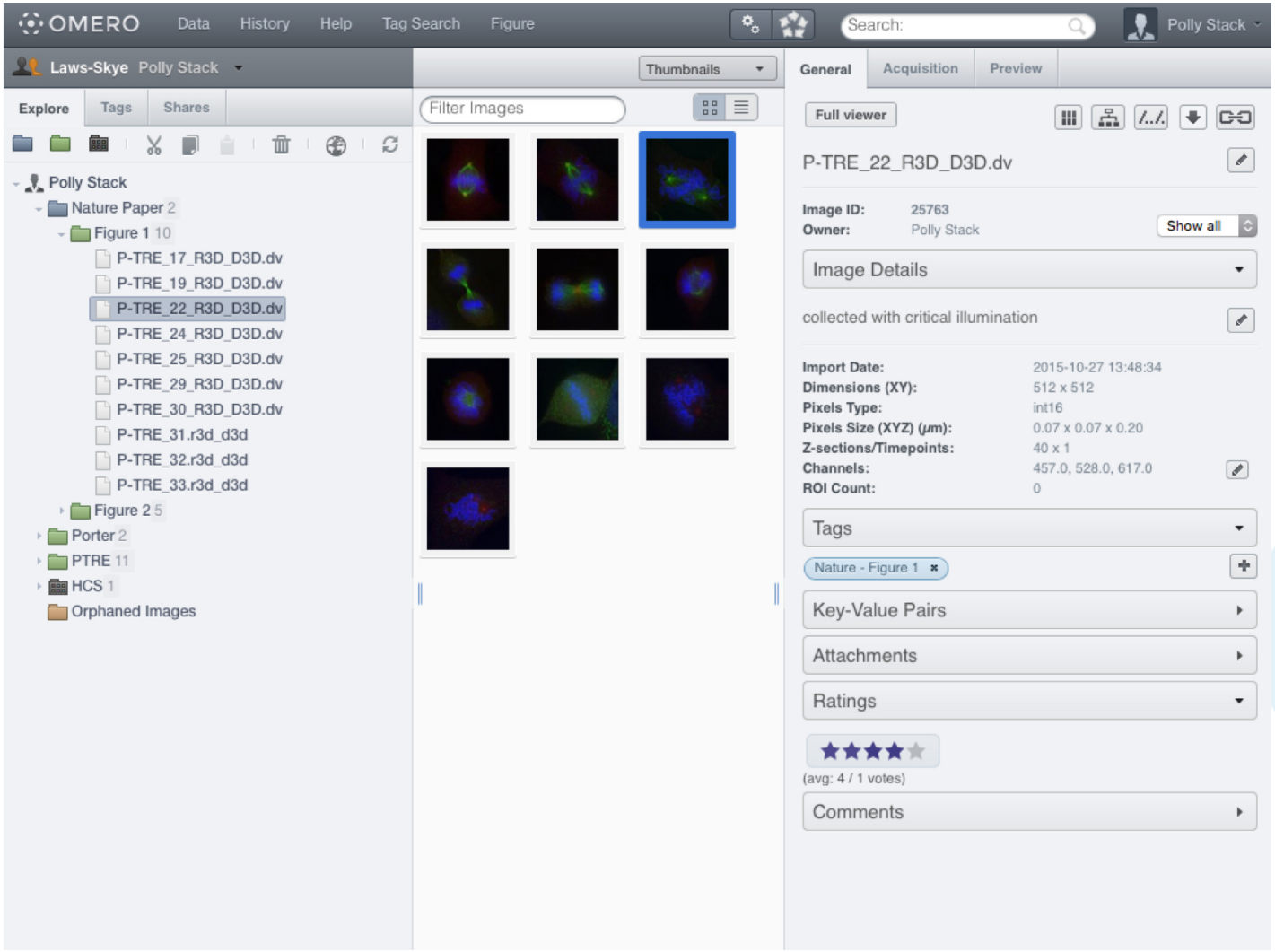


Image Data Organization with OMERO



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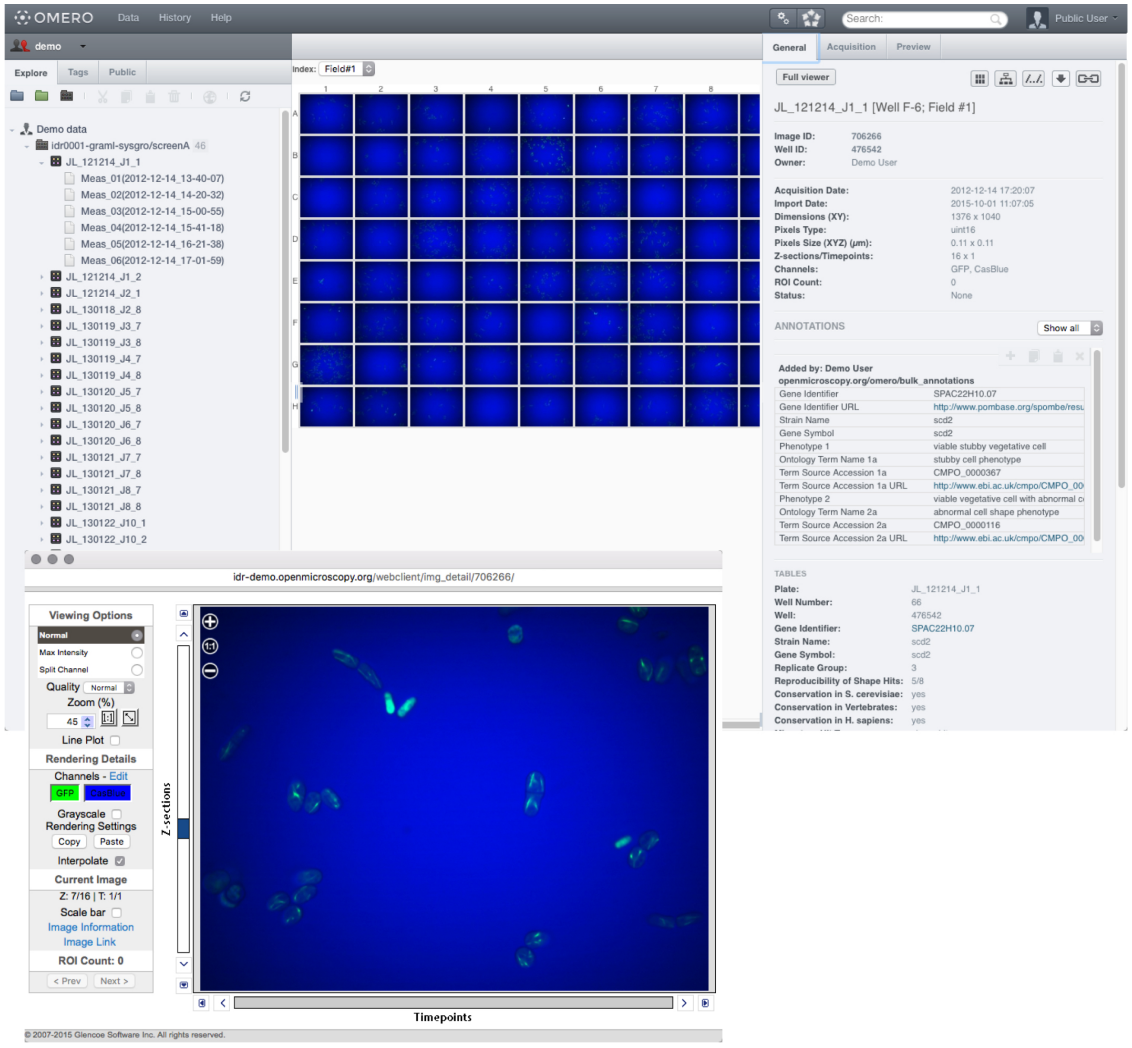


Image Data Organization in OMERO

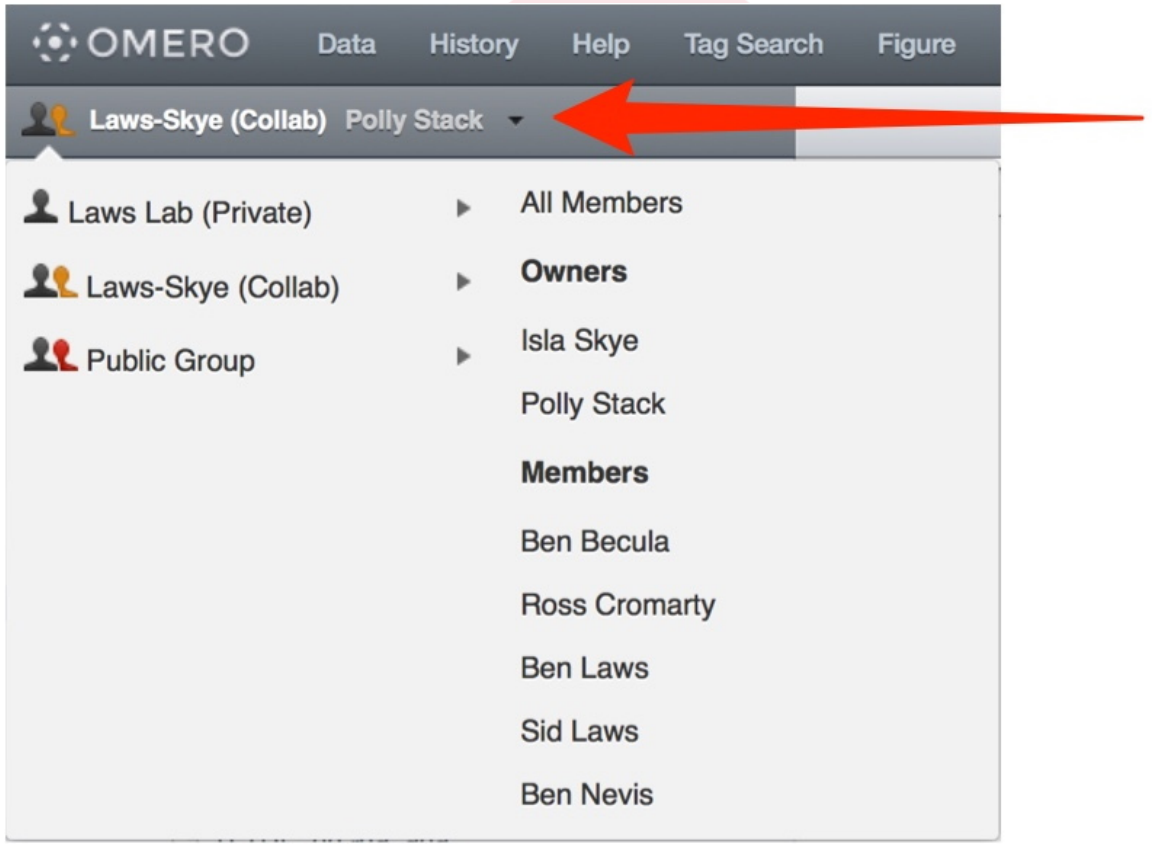
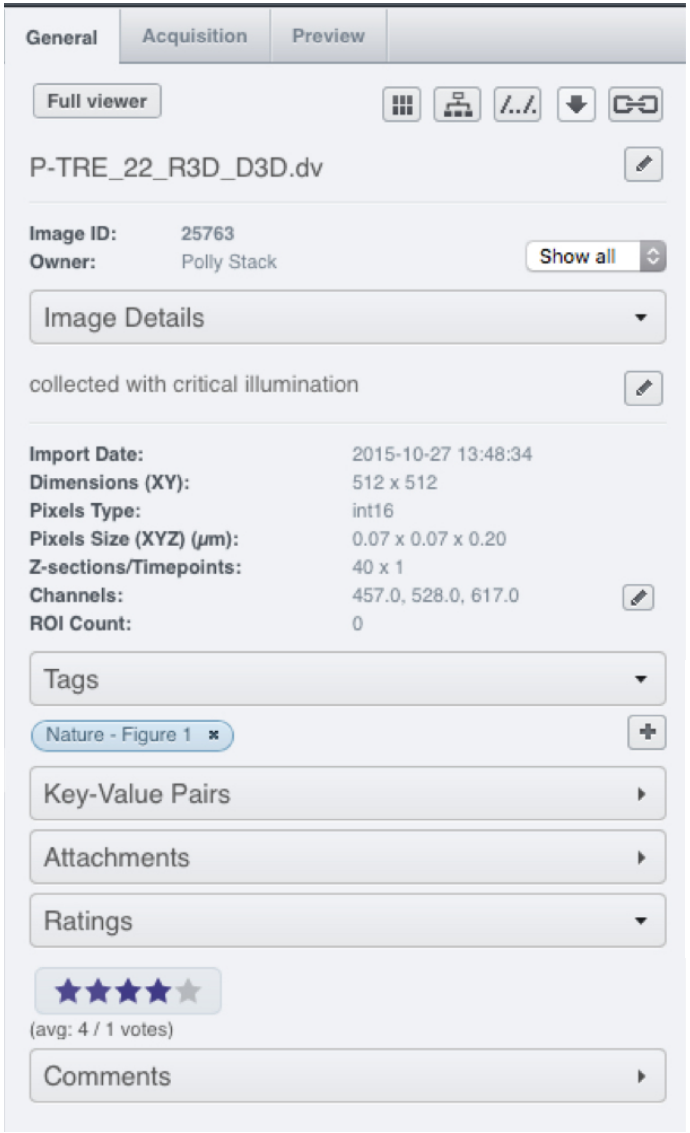
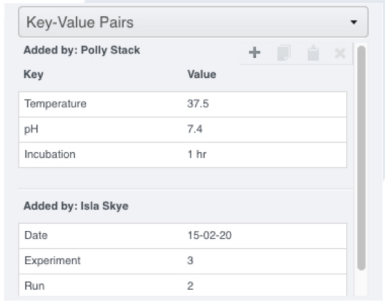


Image Data Annotation with OMERO





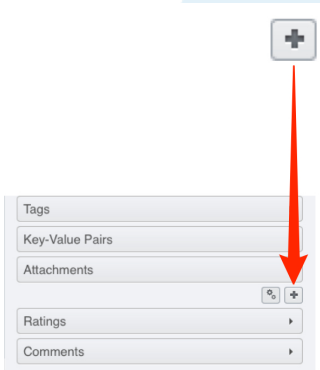


Image Data Annotation and Search with OMERO

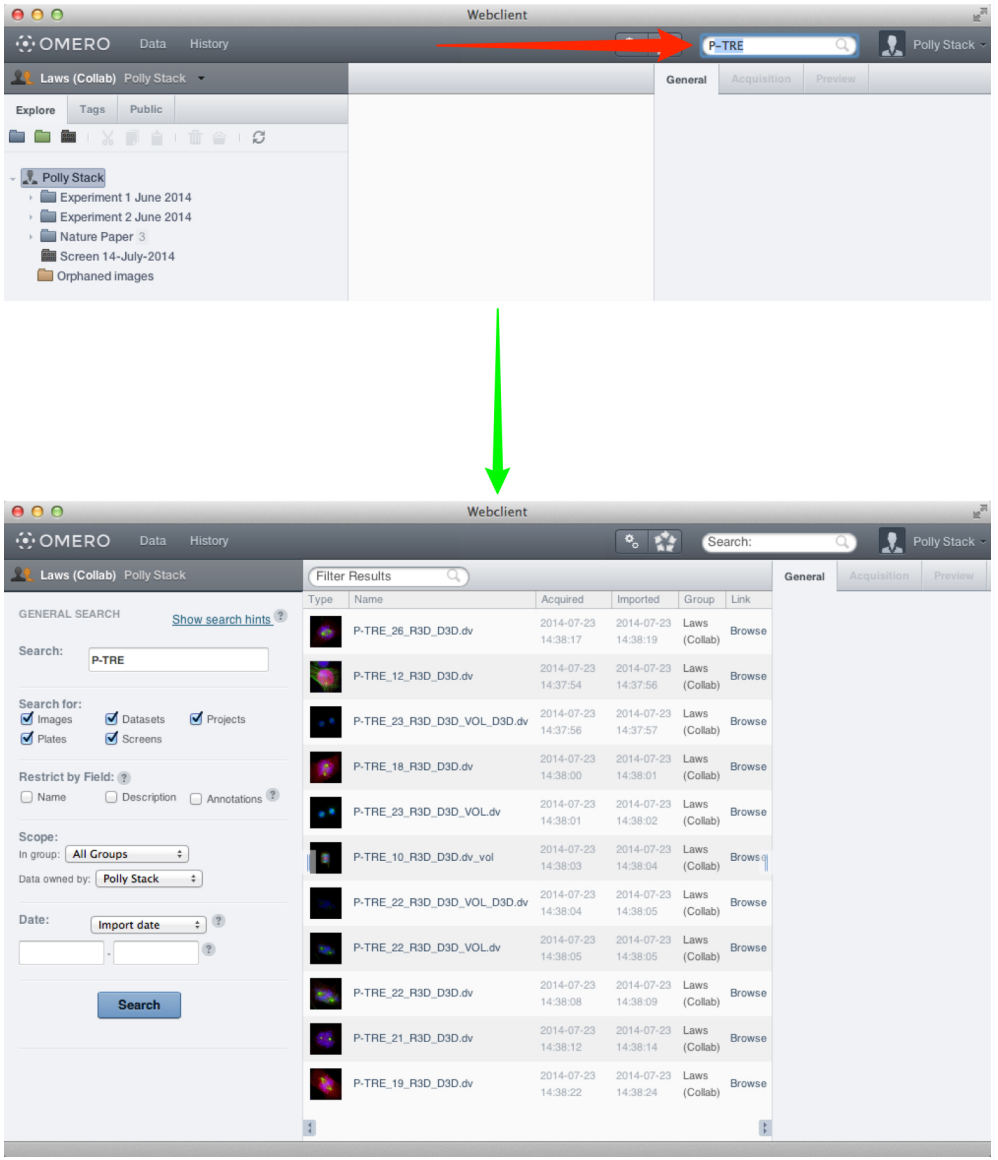


Image Data Analysis with OMERO

Analysis Within OMERO

OMERO.scripts

python

3rd Party Integrations

Image Processing

Java

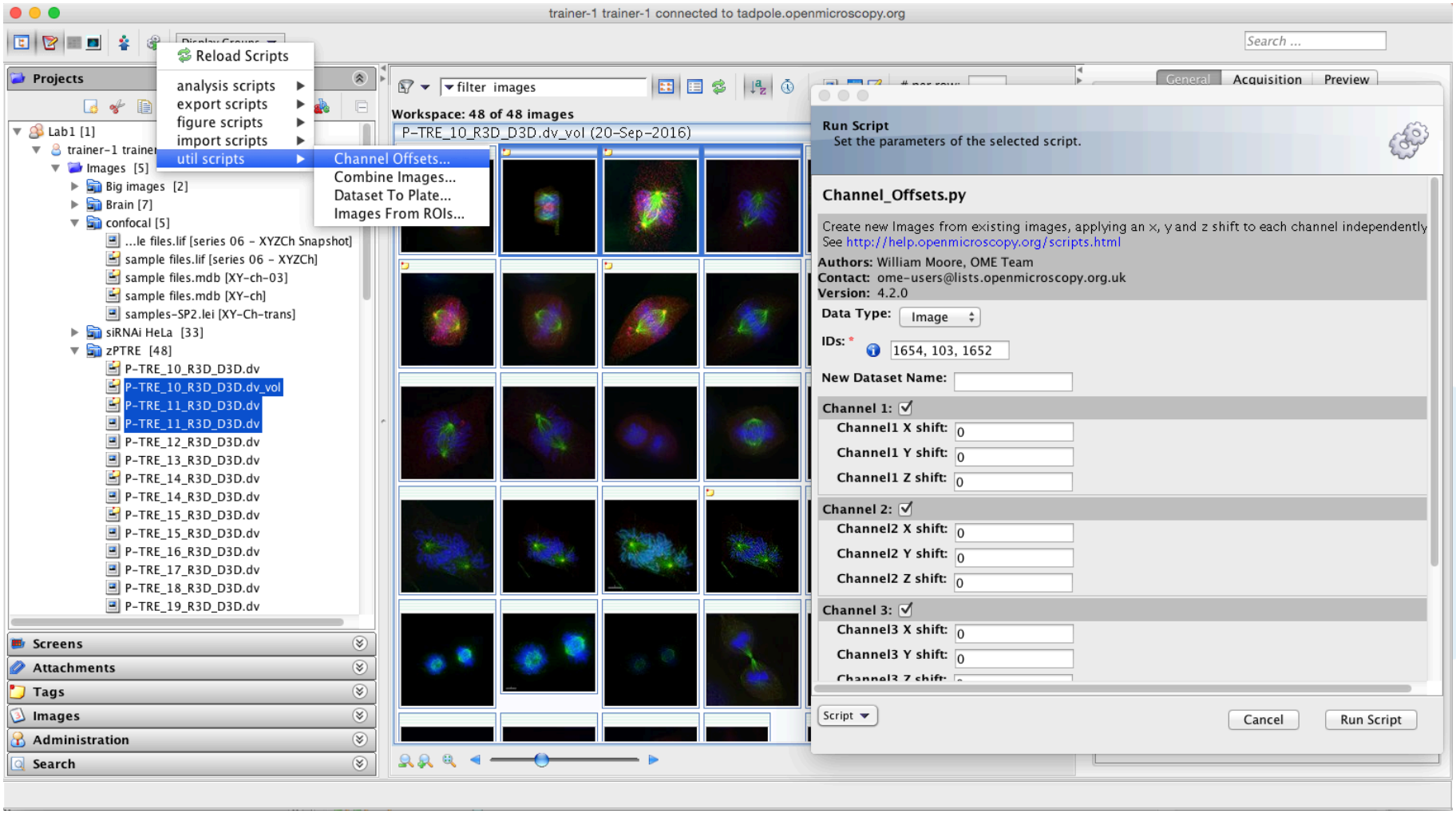
Data Processing

Java

Image and Data Processing

Java

Image Data Analysis within OMERO

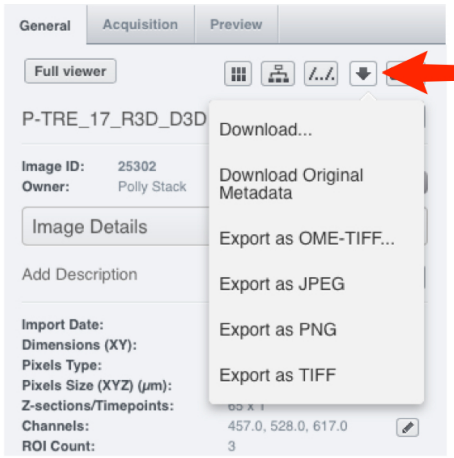


Lets Try:

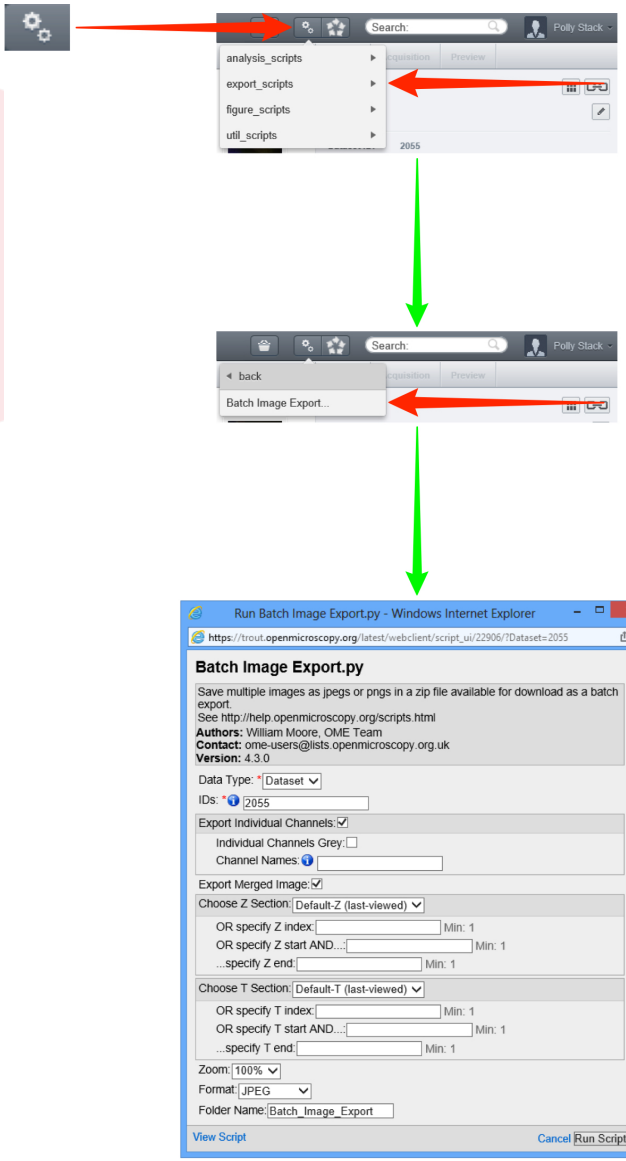
- **Images From ROIs:** Create new Images from the regions defined by Rectangle ROIs on other Images. Designed to work with single-plane images (Z=1 T=1) with multiple ROIs per image.

Batch Image Operations with OMERO

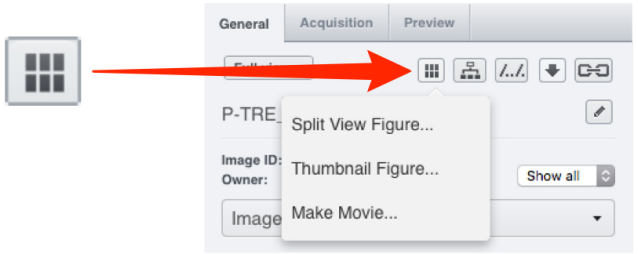
i)



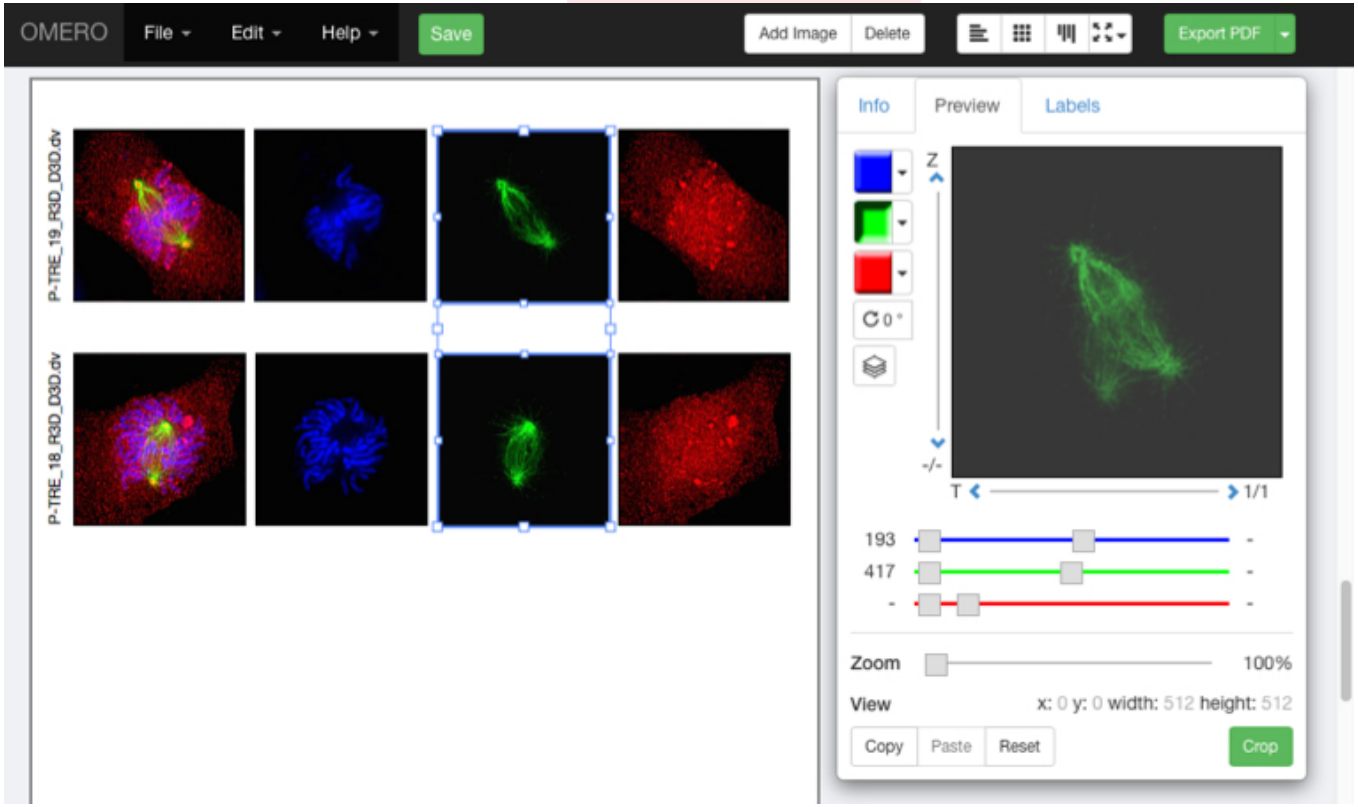
ii)



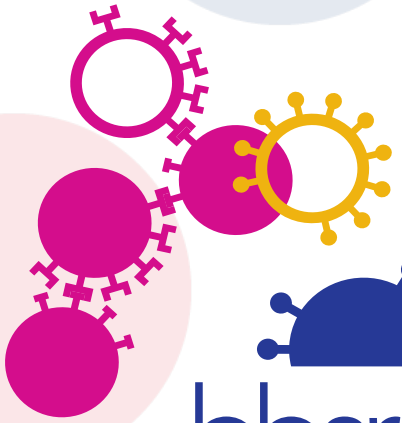
Publishing with OMERO



Publishing with OMERO



Thank to Funders



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biotechnology and biological sciences research council

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OME Consortium

Paul French | Gaudenz Danuser | Ilan Davis | Gianluigi Zanetti

Peter Sorger | Spencer Shorte | Alvis Brazma | Rafael Carazo-Salas | Edouard Bertrand