

OMERO Figure For Dummies

Go to omero.nic.ucsd.edu and use your standard OMERO login credentials



omero:4064

egriffis

.....

[Forgot your password?](#)

Login

OMERO.web 5.4.10-ice36-b105.

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You will see a generic layout of Projects and Datasets

The screenshot displays the OMERO web interface. The top navigation bar includes links for Data, History, Help, Figure, and Admin. The user profile 'Eric Griffiths' is visible in the top right. The left sidebar features an 'Explore' section with a file tree showing a hierarchy of folders: 'Samples 3', 'ERG 1', 'Samples 75', and 'SIM-ER 71'. The 'SIM-ER 71' folder is expanded, revealing a list of files including 'BPAE-2color_2D_Pre-Recon.nd2', 'BPAE-2color_2D_Reconstructed.nd2', 'BPAE-2color_Pre-Recon.nd2', 'BPAE-2color_Reconstructed.nd2', 'BPAE-3color_Pre-Recon.nd2', 'BPAE-3color_Pre-Recon_2.nd2', 'BPAE-3color_Recon_2.nd2', 'BPAE-3color_Reconstructed.nd2', 'BPAE_3Color_3DSim_Mitotic.nd2', 'BPAE_3Color_3DSim_Mitotic001.nd2', 'BPAE_3Color_3DSim_Mitotic001_Recon.nd2', 'BPAE_3Color_3DSim_Mitotic002.nd2', 'BPAE_3Color_3DSim_Mitotic002_Recon_crop.nd2', 'BPAE_3Color_3DSim_Mitotic003.nd2', 'BPAE_3Color_3DSim_Mitotic003_Recon_crop_crop_crop.nd2', 'BPAE_3Color_3DSim_Mitotic004.nd2', 'BPAE_3Color_3DSim_Mitotic004_decon.nd2', 'BPAE_3Color_3DSim_Mitotic_Recon.nd2', and a series of 'SIM_Seq0000_Recon.nd2' files. The main area shows a grid of microscopy images, with one image selected and highlighted by a blue border. The right sidebar contains a 'General' tab with fields for 'Image ID: 94' and 'Owner: Eric Griffiths'. Below this is an 'Image Details' section with a dropdown menu. Further down, there are sections for 'Add Description', 'Import Date: 2018-10-15 19:08:09', 'Dimensions (XY): 1024 x 1024', 'Pixels Type: uint16', 'Pixels Size (XYZ) (μm): 0.03 x 0.03 x 0.10', 'Z-sections/Timepoints: 8 x 1', 'Channels: FITC-3D-SIM, TRITC-3D-SIM, DAPI-3D-SIM', 'ROI Count: 0', and sections for 'Tags', 'Key-Value Pairs', 'Tables', 'Attachments', 'Comments', 'Ratings', and 'Others', all showing a count of 0. A 'Zoom' slider is located at the bottom right of the image grid.

OMERO Data History Help Figure Admin

Search: Eric Griffiths

nic-admins Eric Griffiths

Explore Tags Shares

Samples 3

- ERG 1
- Samples 75
- SIM-ER 71
 - BPAE-2color_2D_Pre-Recon.nd2
 - BPAE-2color_2D_Reconstructed.nd2
 - BPAE-2color_Pre-Recon.nd2
 - BPAE-2color_Reconstructed.nd2
 - BPAE-3color_Pre-Recon.nd2
 - BPAE-3color_Pre-Recon_2.nd2
 - BPAE-3color_Recon_2.nd2
 - BPAE-3color_Reconstructed.nd2
 - BPAE_3Color_3DSim_Mitotic.nd2
 - BPAE_3Color_3DSim_Mitotic001.nd2
 - ...olor_3DSim_Mitotic001_Recon.nd2
 - BPAE_3Color_3DSim_Mitotic002.nd2
 - ..._3DSim_Mitotic002_Recon_crop.nd2
 - BPAE_3Color_3DSim_Mitotic003.nd2
 - ...otic003_Recon_crop_crop_crop.nd2
 - BPAE_3Color_3DSim_Mitotic004.nd2
 - ...olor_3DSim_Mitotic004_decon.nd2
 - ..._3Color_3DSim_Mitotic_Recon.nd2
 - ...SIM_Seq0000_Recon.nd2 (series 01))
 - ...SIM_Seq0000_Recon.nd2 (series 02))
 - ...SIM_Seq0000_Recon.nd2 (series 03))
 - ...SIM_Seq0000_Recon.nd2 (series 04))
 - ...SIM_Seq0000_Recon.nd2 (series 05))
 - ...SIM_Seq0000_Recon.nd2 (series 06))
 - ...SIM_Seq0000_Recon.nd2 (series 07))
 - ...SIM_Seq0000_Recon.nd2 (series 08))
 - SIM_Seq0000_Recon.nd2 (series 09))

Add filter

Full viewer

BPAE-3color_Recon_2.nd2

Image ID: 94
Owner: Eric Griffiths

Show all

Image Details

Add Description

Import Date: 2018-10-15 19:08:09
Dimensions (XY): 1024 x 1024
Pixels Type: uint16
Pixels Size (XYZ) (μm): 0.03 x 0.03 x 0.10
Z-sections/Timepoints: 8 x 1
Channels: FITC-3D-SIM, TRITC-3D-SIM, DAPI-3D-SIM
ROI Count: 0

Tags 0

Key-Value Pairs 0

Tables

Attachments 0

Comments 0

Ratings 0

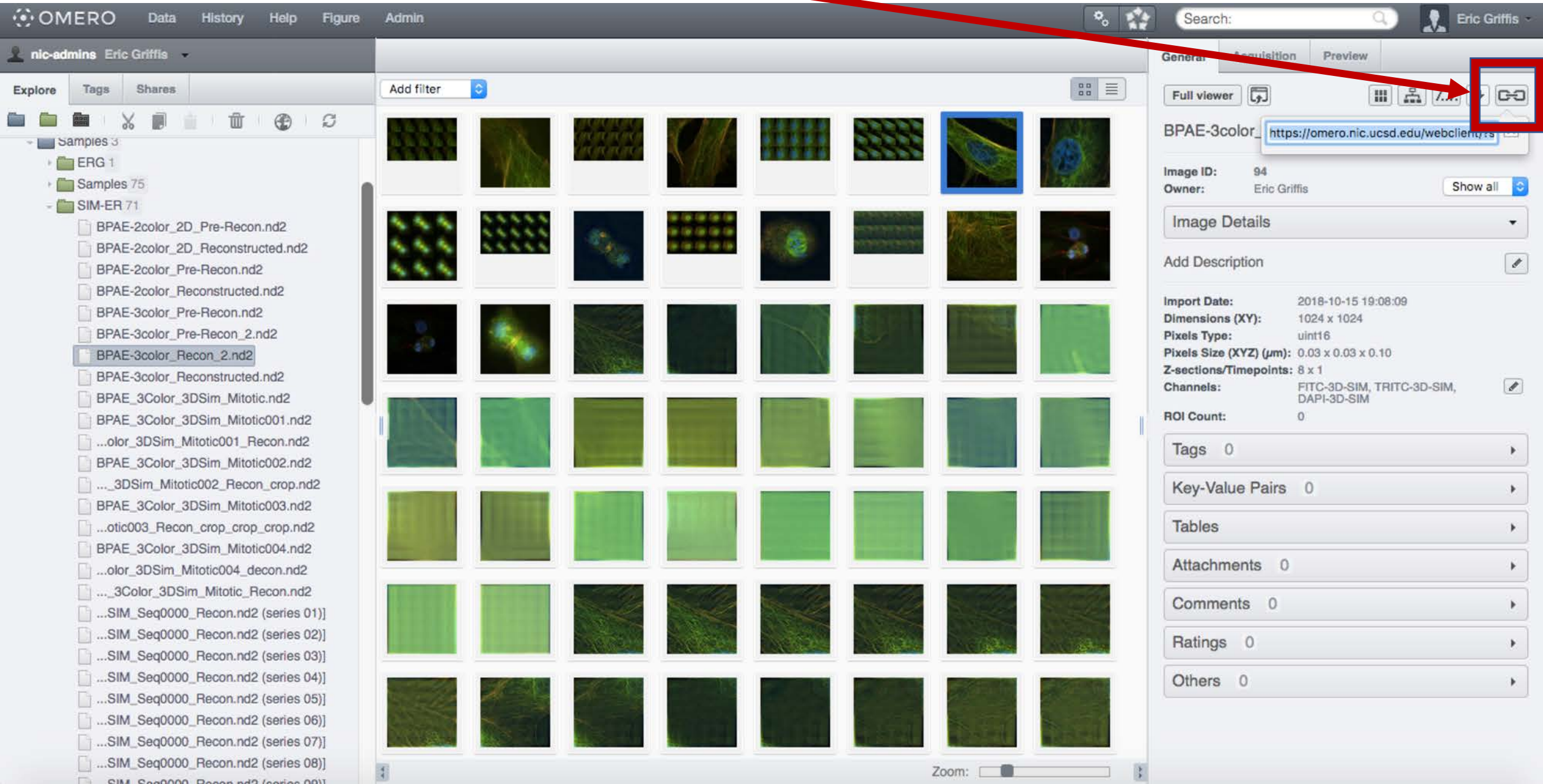
Others 0

Zoom:

Select an image that you want to work with

The screenshot displays the OMERO web client interface. At the top, a navigation bar includes links for Data, History, Help, Figure, and Admin. A search bar and the user's name, Eric Griffiths, are also present. The left sidebar shows a file tree under 'Samples 3', with 'SIM-ER 71' expanded to show a list of image files. The main area features a grid of microscopy images. A red arrow points to a specific image in the grid, which is highlighted with a red square. The right-hand panel displays the 'General' tab for the selected image, showing details such as Image ID (94), Owner (Eric Griffiths), Import Date (2018-10-15 19:08:09), Dimensions (1024 x 1024), and Channels (FITC-3D-SIM, TRITC-3D-SIM, DAPI-3D-SIM). A URL bar at the top right shows the current page address: <https://omero.nic.ucsd.edu/webclient/?s>.

Press the  button and then copy the text of the link



The screenshot displays the OMERO web interface. The top navigation bar includes links for Data, History, Help, Figure, and Admin. The left sidebar shows a file explorer with a tree structure: Samples 3, ERG 1, Samples 75, and SIM-ER 71. The main area is a grid of microscopy images, with one image selected and highlighted by a blue border. The right sidebar contains the 'Image Details' panel for the selected image, showing metadata such as Image ID (94), Owner (Eric Griffiths), Import Date (2018-10-15 19:08:09), Dimensions (XY: 1024 x 1024), Pixels Type (uint16), Pixels Size (XYZ) (μm): 0.03 x 0.03 x 0.10, Z-sections/Timepoints (8 x 1), Channels (FITC-3D-SIM, TRITC-3D-SIM, DAPI-3D-SIM), and ROI Count (0). A red arrow points from the text above to the 'Link' icon in the top right corner of the interface.

OMERO Data History Help Figure Admin

nic-admins Eric Griffiths

Explore Tags Shares

Samples 3

- ERG 1
- Samples 75
- SIM-ER 71
 - BPAE-2color_2D_Pre-Recon.nd2
 - BPAE-2color_2D_Reconstructed.nd2
 - BPAE-2color_Pre-Recon.nd2
 - BPAE-2color_Reconstructed.nd2
 - BPAE-3color_Pre-Recon.nd2
 - BPAE-3color_Pre-Recon_2.nd2
 - BPAE-3color_Recon_2.nd2**
 - BPAE-3color_Reconstructed.nd2
 - BPAE_3Color_3DSim_Mitotic.nd2
 - BPAE_3Color_3DSim_Mitotic001.nd2
 - ...olor_3DSim_Mitotic001_Recon.nd2
 - BPAE_3Color_3DSim_Mitotic002.nd2
 - ...3DSim_Mitotic002_Recon_crop.nd2
 - BPAE_3Color_3DSim_Mitotic003.nd2
 - ...otic003_Recon_crop_crop_crop.nd2
 - BPAE_3Color_3DSim_Mitotic004.nd2
 - ...olor_3DSim_Mitotic004_decon.nd2
 - ...3Color_3DSim_Mitotic_Recon.nd2
 - ...SIM_Seq0000_Recon.nd2 (series 01)]
 - ...SIM_Seq0000_Recon.nd2 (series 02)]
 - ...SIM_Seq0000_Recon.nd2 (series 03)]
 - ...SIM_Seq0000_Recon.nd2 (series 04)]
 - ...SIM_Seq0000_Recon.nd2 (series 05)]
 - ...SIM_Seq0000_Recon.nd2 (series 06)]
 - ...SIM_Seq0000_Recon.nd2 (series 07)]
 - ...SIM_Seq0000_Recon.nd2 (series 08)]
 - ...SIM_Seq0000_Recon.nd2 (series 09)]

Add filter

Full viewer

BPAE-3color_2 https://omero.nic.ucsd.edu/webclient/...

Image ID: 94
Owner: Eric Griffiths Show all

Image Details

Add Description

Import Date: 2018-10-15 19:08:09
Dimensions (XY): 1024 x 1024
Pixels Type: uint16
Pixels Size (XYZ) (μm): 0.03 x 0.03 x 0.10
Z-sections/Timepoints: 8 x 1
Channels: FITC-3D-SIM, TRITC-3D-SIM, DAPI-3D-SIM
ROI Count: 0

Tags 0

Key-Value Pairs 0

Tables

Attachments 0

Comments 0

Ratings 0

Others 0

Zoom: [Slider]

Press the Figure button

The screenshot displays the OMERO web client interface. At the top, a navigation bar includes 'Data', 'History', 'Help', 'Figure', and 'Admin'. The 'Figure' button is highlighted with a red square and a red arrow pointing to it from the text 'Press the Figure button'. Below the navigation bar, the left sidebar shows a file tree under 'Samples 3', with 'SIM-ER 71' expanded. The main area shows a grid of image thumbnails. The right sidebar contains metadata for the selected image, 'BPAE-3color_Recon_2.nd2', including its ID (94), owner (Eric Griffiths), and various technical details like dimensions and channels. A URL tooltip is visible over the image title.

OMERO Data History Help **Figure** Admin

nic-admins Eric Griffiths

Explore Tags Shares

Samples 3

- ERG 1
- Samples 75
- SIM-ER 71
 - BPAE-2color_2D_Pre-Recon.nd2
 - BPAE-2color_2D_Reconstructed.nd2
 - BPAE-2color_Pre-Recon.nd2
 - BPAE-2color_Reconstructed.nd2
 - BPAE-3color_Pre-Recon.nd2
 - BPAE-3color_Pre-Recon_2.nd2
 - BPAE-3color_Recon_2.nd2**
 - BPAE-3color_Reconstructed.nd2
 - BPAE_3Color_3DSim_Mitotic.nd2
 - BPAE_3Color_3DSim_Mitotic001.nd2
 - ...olor_3DSim_Mitotic001_Recon.nd2
 - BPAE_3Color_3DSim_Mitotic002.nd2
 - ..._3DSim_Mitotic002_Recon_crop.nd2
 - BPAE_3Color_3DSim_Mitotic003.nd2
 - ...otic003_Recon_crop_crop_crop.nd2
 - BPAE_3Color_3DSim_Mitotic004.nd2
 - ...olor_3DSim_Mitotic004_decon.nd2
 - ..._3Color_3DSim_Mitotic_Recon.nd2
 - ...SIM_Seq0000_Recon.nd2 (series 01)]
 - ...SIM_Seq0000_Recon.nd2 (series 02)]
 - ...SIM_Seq0000_Recon.nd2 (series 03)]
 - ...SIM_Seq0000_Recon.nd2 (series 04)]
 - ...SIM_Seq0000_Recon.nd2 (series 05)]
 - ...SIM_Seq0000_Recon.nd2 (series 06)]
 - ...SIM_Seq0000_Recon.nd2 (series 07)]
 - ...SIM_Seq0000_Recon.nd2 (series 08)]
 - ...SIM_Seq0000_Recon.nd2 (series 09)]

Add filter

Full viewer

BPAE-3color_ <https://omero.nic.ucsd.edu/webclient/?s>

Image ID: 94
Owner: Eric Griffiths [Show all](#)

Image Details

Add Description

Import Date: 2018-10-15 19:08:09
Dimensions (XY): 1024 x 1024
Pixels Type: uint16
Pixels Size (XYZ) (μm): 0.03 x 0.03 x 0.10
Z-sections/Timepoints: 8 x 1
Channels: FITC-3D-SIM, TRITC-3D-SIM, DAPI-3D-SIM
ROI Count: 0

Tags 0

Key-Value Pairs 0

Tables

Attachments 0

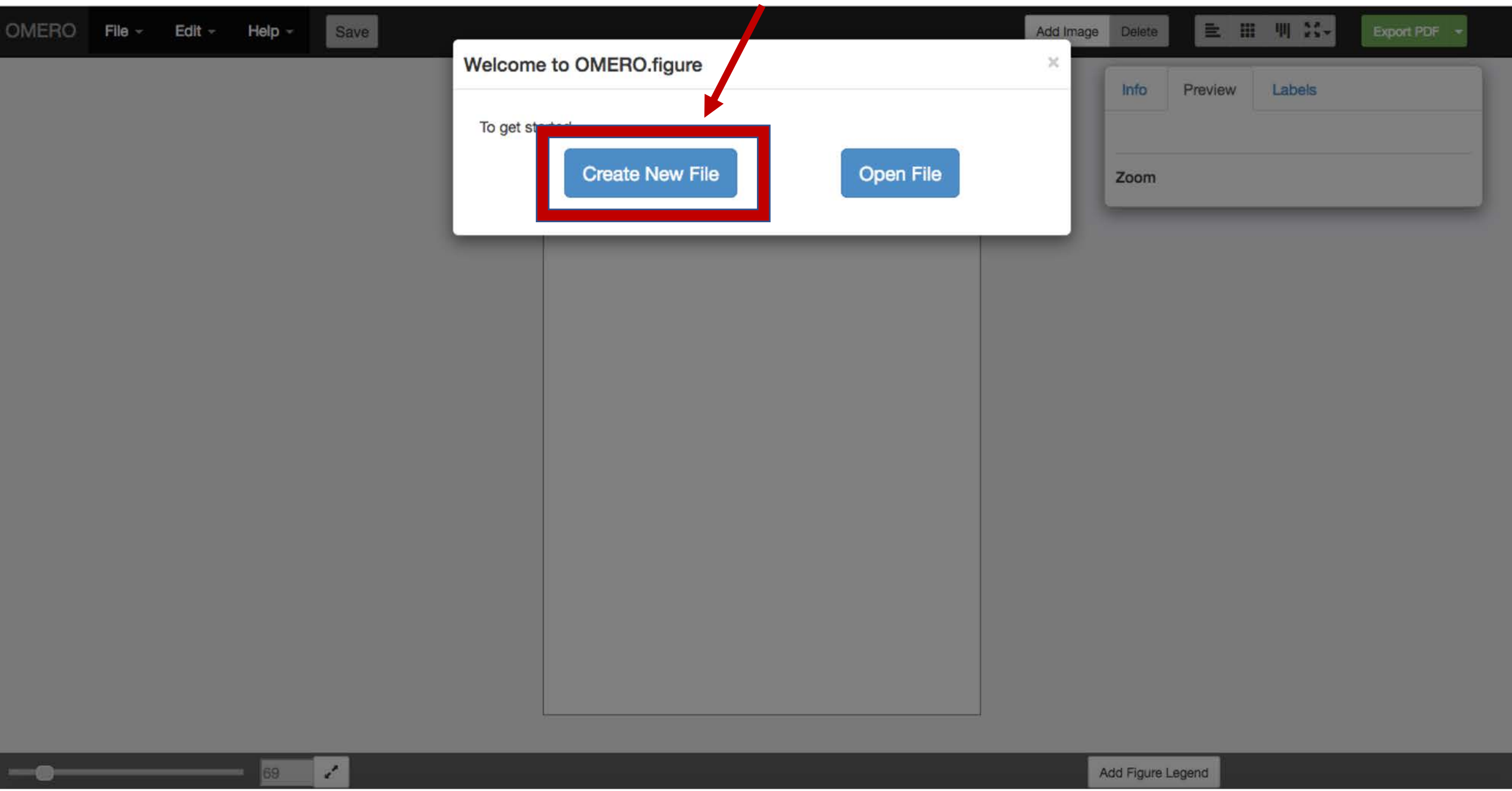
Comments 0

Ratings 0

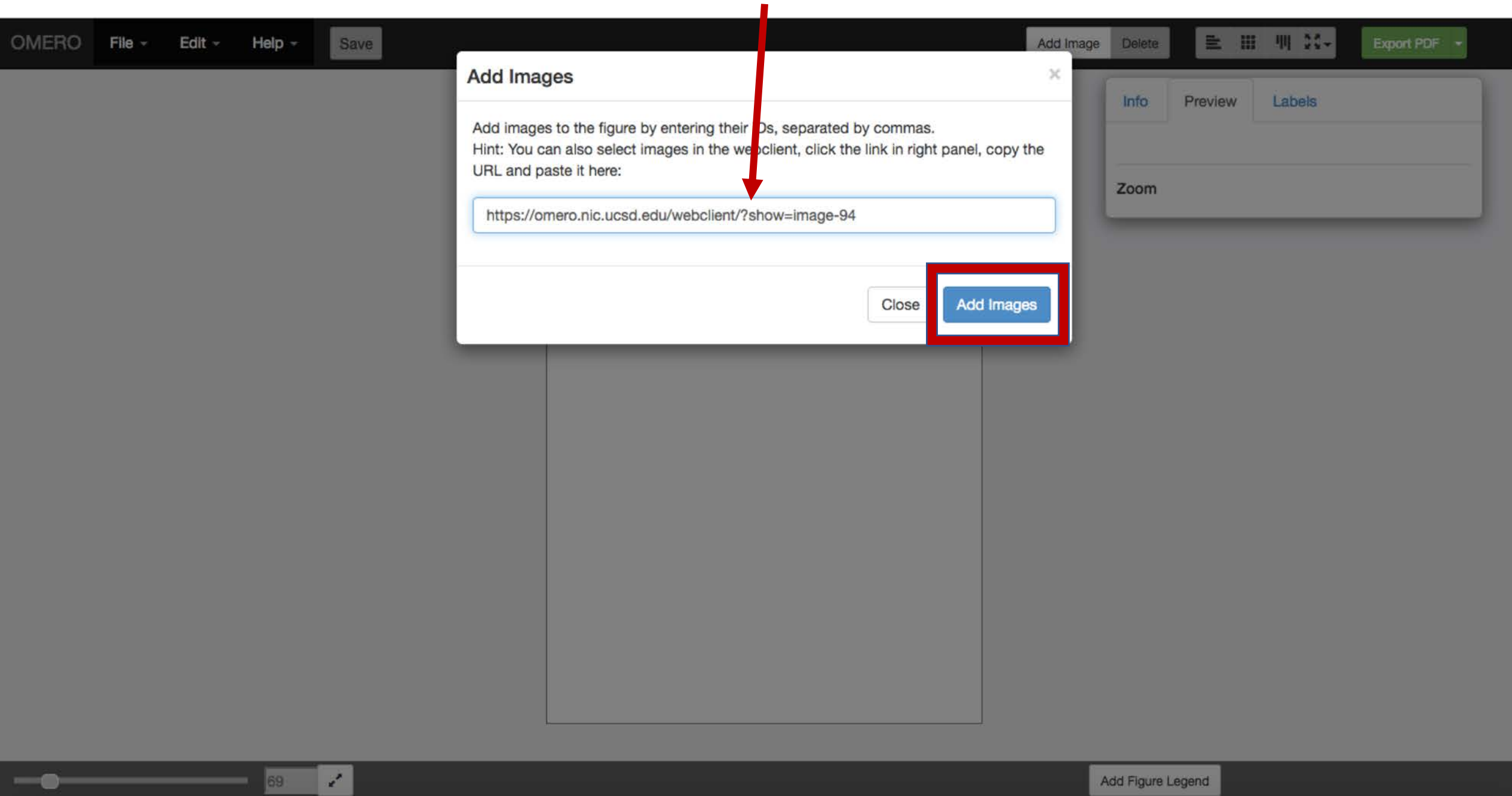
Others 0

Zoom:

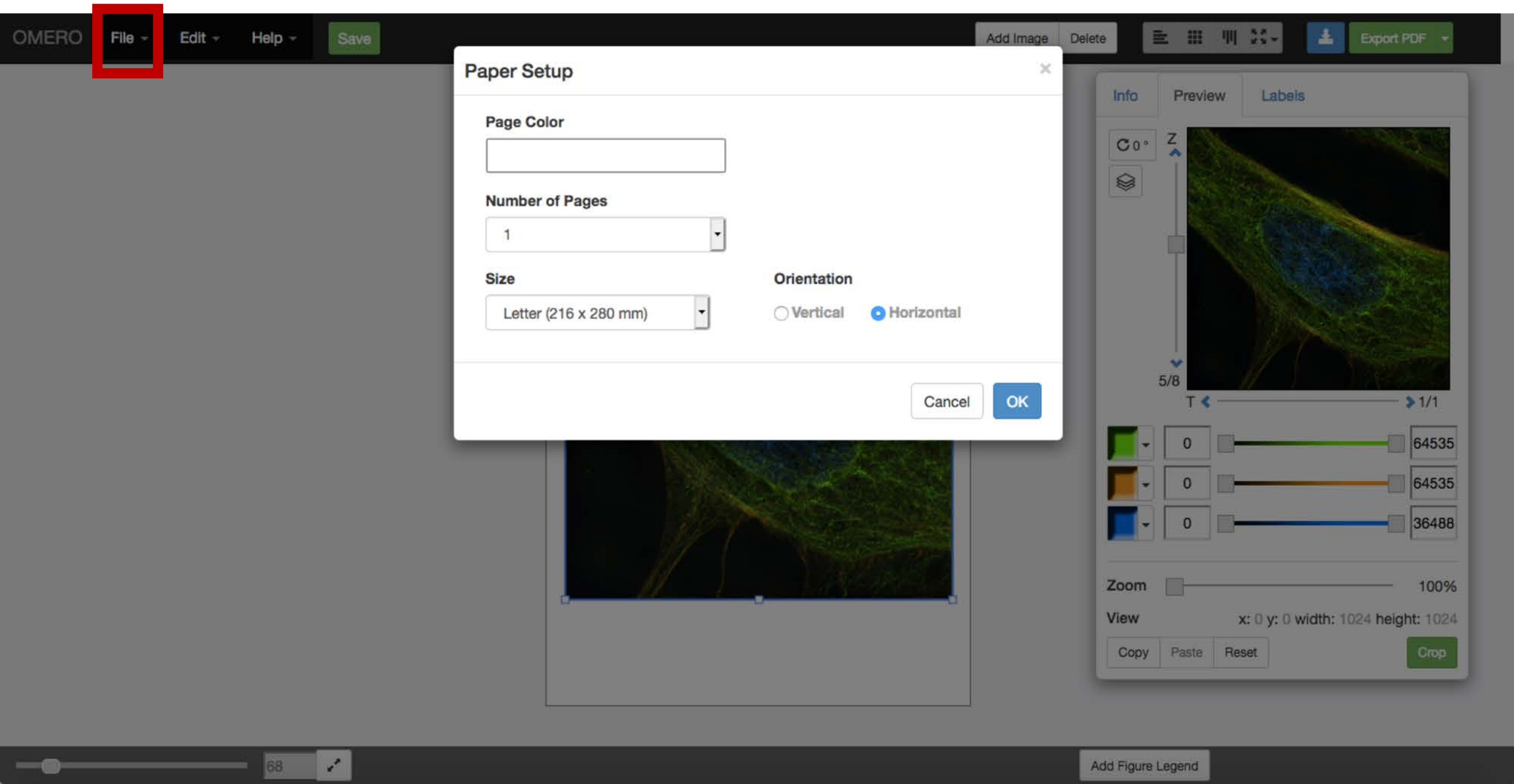
Select “Create New File”



Paste in the link to the image you want to add and click “Add Images”



Under the File menu, you can select Paper Setup to set the size and orientation of the canvas.

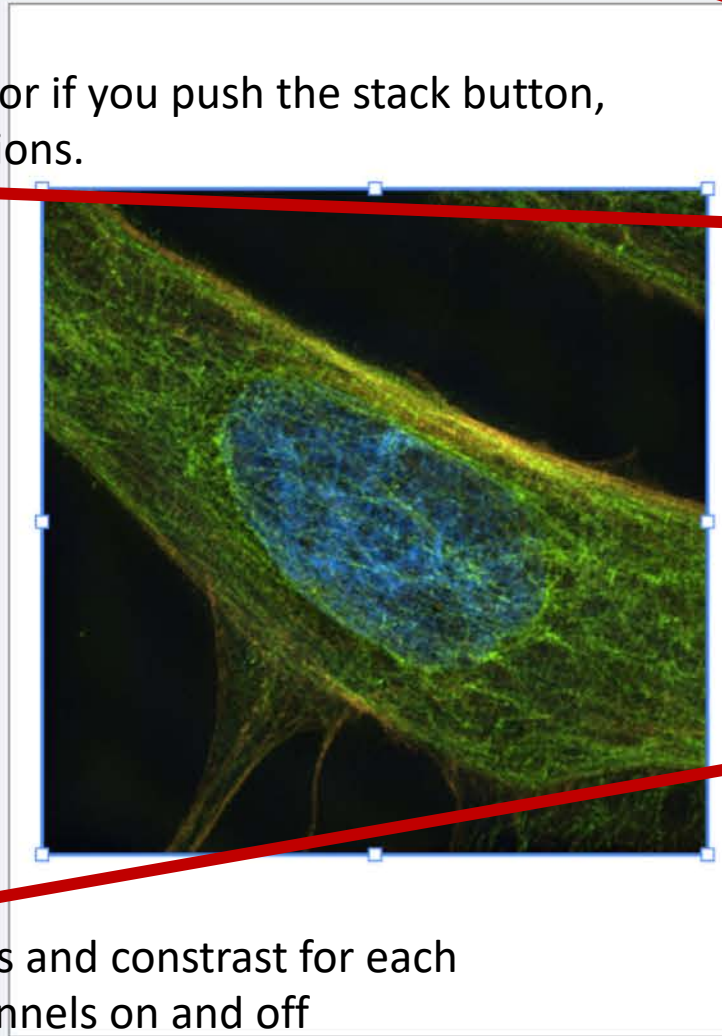


Make adjustments on the Preview Tab



Rotation

Use this slider to adjust the Z-section shown, or if you push the stack button, you can create a projection for a set of Z-sections.



Use these sliders to adjust brightness and contrast for each channel and the buttons to turn channels on and off

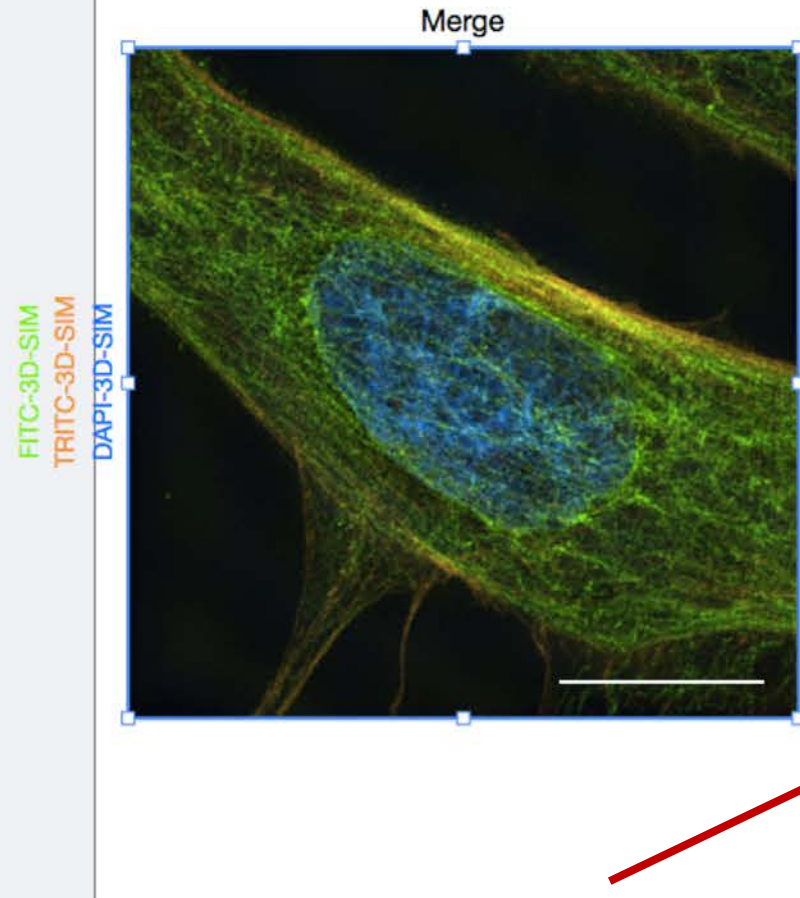
The 'Preview' tab control panel contains several interactive elements. At the top, there are tabs for 'Info', 'Preview', and 'Labels'. Below these, there is a 'Rotation' control showing '0°' and a 'Z' stack button with a stack icon. A vertical slider for the Z-section is positioned next to a small thumbnail of the current Z-section, with '3-7/8' and '1/1' markers. Below the Z-section controls are three channel sliders, each with a color swatch, a brightness/contrast slider, and a numerical value (0, 64535, and 36488 respectively). At the bottom, there is a 'Zoom' slider set to '100%', a 'View' section showing coordinates 'x: 0 y: 0 width: 1024 height: 1024', and buttons for 'Copy', 'Paste', 'Reset', and a green 'Crop' button.

Use this to adjust the Zoom factor

Make adjustments on the Labels Tab



Scale bars are calibrated with the metadata and can be placed at various positions and various sizes



Info Preview Labels

ROIs 0 ROIs selected

2 pt Copy Paste Delete Edit

Scalebar Pixel Size: 0.032 μm

10 μm Hide

Add Labels M+

Merge Channels 24 Add

Edit Labels

Label	Size	Color	Remove
Merge	24	Black	X
FITC-3D-SIM	21	Green	X
TRITC-3D-SIM	21	Orange	X
DAPI-3D-SIM	21	Blue	X

Labels of various sizes and colors can be placed on, above, or beside the images

You can copy and paste images multiple times and then turn off channels to show individual fluors.

OMERO

File Edit Help

Save

Add ImageDelete

Export PDF

FITC-3D-SIM

TRITC-3D-SIM

DAPI-3D-SIM

Merge

Phalloidin

Tubulin

DAPI

InfoPreviewLabels

0°

Z

3-7/8

T

1/1

0

64535

0

64535

0

36488

Zoom

100%

View

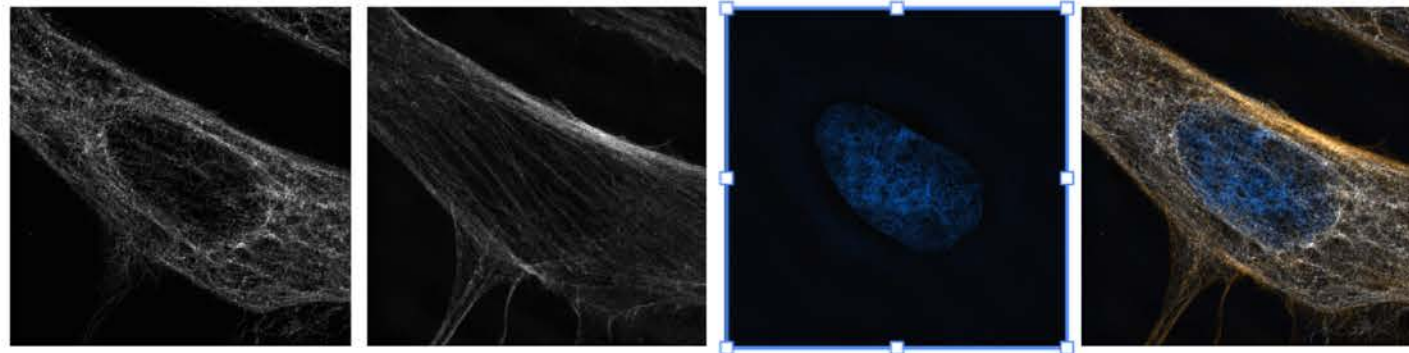
x: 0 y: 0 width: 1024 height: 1024

Copy

Paste

Reset

Crop



Clicking on the arrow next to the color button allows you to select the color for each channel, or to convert to black and white.

Info Preview Labels

0° Z 5/8 T 1/1

0 64535

0 64535

36488

100%

width: 1024 height: 1024

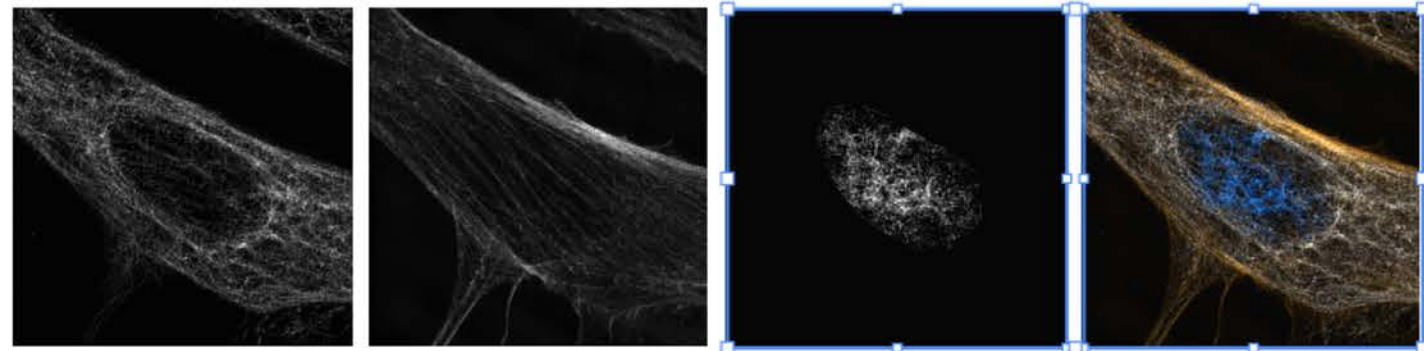
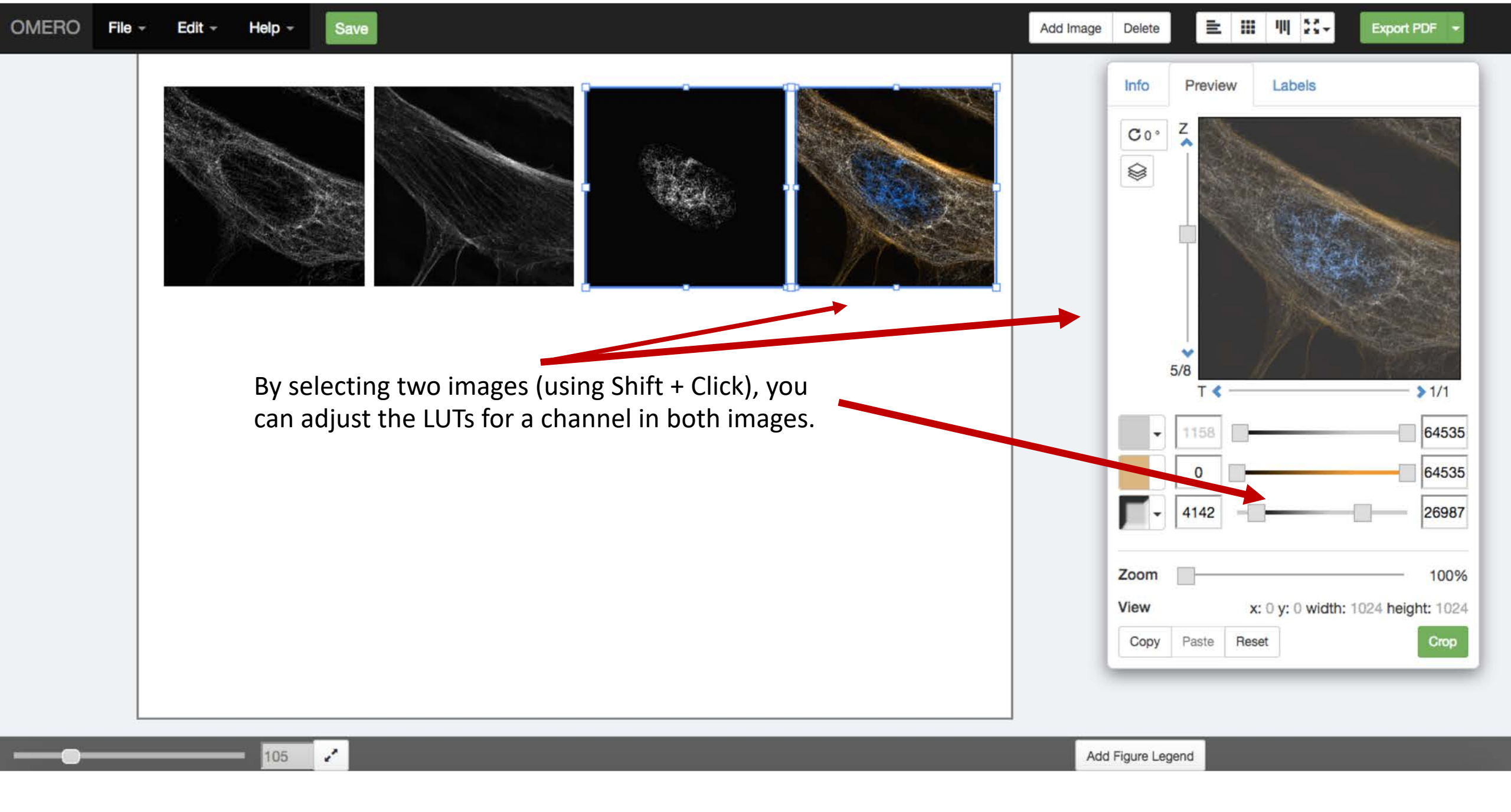
Crop

☐ Invert

- Blue
- Green
- Red
- Yellow
- White
- Magenta

Add Figure Legend

Up Tables



By selecting two images (using Shift + Click), you can adjust the LUTs for a channel in both images.

Info Preview Labels

0°

Z

5/8

T

1/1

1158

0

4142

64535

64535

26987

Zoom

100%

View

x: 0 y: 0 width: 1024 height: 1024

Copy

Paste

Reset

Crop

Push the “Export PDF” button to create the PDF that you will then download.

OMERO File Edit Help Save Add Image Delete Export PDF

Info Preview Labels

0° Z 5/8 T 1/1

1158 64535 0 64535 4142 26987

Zoom 100%

View x: 0 y: 0 width: 1024 height: 1024

Copy Paste Reset Crop

105 Add Figure Legend

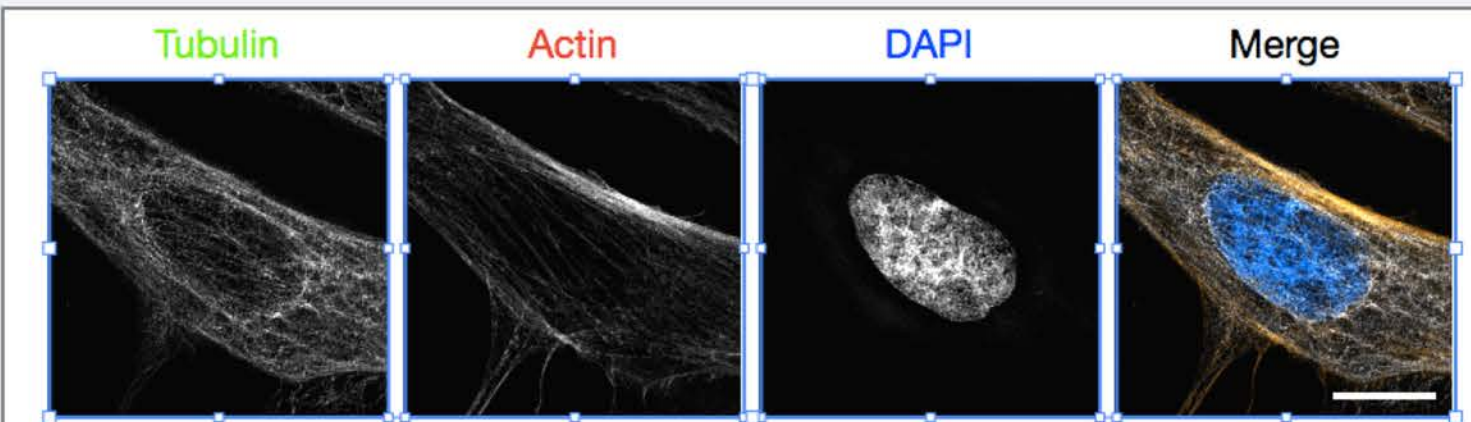
The screenshot displays the OMERO web interface. The top navigation bar includes 'File', 'Edit', 'Help', and a green 'Save' button. To the right are 'Add Image', 'Delete', and a red-outlined 'Export PDF' button. The main workspace shows a four-panel microscopy image. The third panel from the left is selected, indicated by a blue border and handles. The right-hand panel contains a 'Preview' tab with a Z-stack slider (5/8), a T-stack slider (1/1), and three color calibration sliders with values 1158, 0, and 4142. Below these are zoom and view controls, and a 'Crop' button. The bottom status bar shows a scale bar at 105 and an 'Add Figure Legend' button.

Push the



button to download the PDF .

OMERO File Edit Help Save SIM_Demo Figure Add Image Delete Export PDF



Info Preview Labels

0° Z 3-6/8 T 1/1

1158	58866
1727	56208
1000	28958

Zoom 100%

View x: 0 y: 0 width: 1024 height: 1024

Copy Paste Reset Crop

You can now open the PDF in Illustrator or Inkscape to make any changes that you want.

OMERO

File Edit Help Save

SIM_Demo Figure

Add Image Delete

Export PDF

Opening SIM_Demo_Figure.pdf

You have chosen to open:
SIM_Demo_Figure.pdf
which is: PDF file (4.0 MB)
from: <https://omero.nic.ucsd.edu>

What should Firefox do with this file?

☒ Open with Choose...

☐ Save File

☐ Do this automatically for files like this from now on.

Cancel OK

DAPI Merge

Info Preview Labels

0° Z

3-6/8

T 1/1

1158 58866

1727 56208

1000 28958

Zoom 100%

View x: 0 y: 0 width: 1024 height: 1024

Copy Paste Reset Crop

Legend formatting

105

Cancel Save