MICROSCOPY

Sample Prep

1. Define your microscopy analyses and conditions.
Note: Brightfield analysis does not require conditions to be specified.

Analysis	Conditions	
Dye/Stain	Dye/Stain Name	
Antibody-labeling IF	Antibody Name	x
Antibody-labeling IHC	Antibody 1	x
Antibody-labeling IHC	Antibody 2	x
Brightfield	---	x
Select Analysis	*Conditions*	x

ADD

Notes: The first row cannot be deleted, but other added rows can be deleted.

If brightfield is selected, then no additional conditions need to be specified.

BACK

SAVE AND CONTINUE

2. Define which of the following analyses and conditions are available for each of your samples.
If a particular analysis and condition is not available for a sample, then select “no

Sample	Available?	Analysis Type	Conditions
1. Strain A, Treatment A, 100 ng/mL, 30 C	X	Dye/Stain	Dye/Stain Name
	X	Antibody-labeling IF	Antibody Name
	X	Antibody-labeling IHC	Antibody 1
	X	Antibody-labeling IHC	Antibody 2
	X	Brightfield	
2. Strain A, Treatment A, 100 ng/mL, 37 C	X	Dye/Stain	Dye/Stain Name
	X	Antibody-labeling IF	Antibody Name
	X	Antibody-labeling IHC	Antibody 1
	X	Antibody-labeling IHC	Antibody 2
	X	Brightfield	
3. Strain A, Treatment B, 200 ng/mL, 30 C	X	Dye/Stain	Dye/Stain Name
	X	Antibody-labeling IF	Antibody Name
	X	Antibody-labeling IHC	Antibody 1
	X	Antibody-labeling IHC	Antibody 2
	X	Brightfield	
4. Strain A, Treatment B, 200 ng/mL, 37 C	X	Dye/Stain	Dye/Stain Name
	X	Antibody-labeling IF	Antibody Name
	X	Antibody-labeling IHC	Antibody 1
	X	Antibody-labeling IHC	Antibody 2
	X	Brightfield	
5. Strain B, Treatment A, 100 ng/mL, 30 C	X	Dye/Stain	Dye/Stain Name
	X	Antibody-labeling IF	Antibody Name
	X	Antibody-labeling IHC	Antibody 1
	X	Antibody-labeling IHC	Antibody 2
	X	Brightfield	

Note: all of the samples and microscopy analysis/conditions are automatically selected. The instructor can then unselect any combination that does not apply for a sample. A sample does not need to have a microscopy analysis/ condition combination selected.

Do we need Clear all and Select all buttons at the bottom of the “Available” column?

If the instructor inputs multiple dye/ stains and/or multiple antibodies, then they appear as additional sub-rows for each sample here (as shown here).

This list of samples continues for as many samples as the instructor has defined in the experiment setup

BACK

SAVE AND CONTINUE

Analyze

3. Select the available image(s) for each sample.
Note: We recommend that images are at least 500x500 pixels for optimal viewing in StarCellBio.

A. Dye/Stain, Dye/Stain Name

1. Strain A, Treatment A, 100 ng/mL, 30 C

   ADD IMAGE(S)

2. Strain A, Treatment A, 100 ng/mL, 37 C

   ADD IMAGE(S)

3. Strain A, Treatment B, 200 ng/mL, 30 C

   ADD IMAGE(S)

4. Strain A, Treatment B, 200 ng/mL, 37 C

   ADD IMAGE(S)

5. Strain B, Treatment A, 100 ng/mL, 30 C

   ADD IMAGE(S)

B. Antibody-labeling IF, Antibody Name

1. Strain A, Treatment A, 100 ng/mL, 30 C

   ADD IMAGE(S)

This list of samples continues for all of the samples with this treatment combination, then the next treatment combination, if applicable, will follow.

Should the samples be grouped by analysis/condition or by sample?

Once the instructor clicks “Add Image(s)” a pop up window will appear where the instructor can select an image from his/her computer. See page 6.

Once an image is selected, then the instructor can apply the image(s) to the rest of the samples. See page 5.

Does the instructor need to upload the images into a repository in their instructor account or should he/she upload them directly from their computer into the appropriate sample.

BACK

SAVE AND CONTINUE

This is what the pop up window to select an image will look like:

A. Dye/Stain, Dye/Stain Name

X

Sample Name

PREVIOUS NEXT

SELECT IMAGE(S):

This connects to the user's operating system and the user can navigate to find the image(s) that he/she would like to select.

The user can select multiple images by using the "control" button on a PC or the "command" button on a Mac.

CANCEL OK

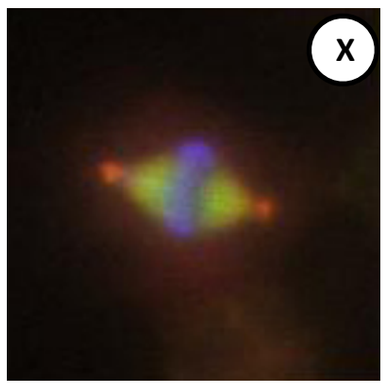
Analyze

3. Select the available image(s) for each sample.
Note: We recommend that images are at least 500x500 pixels for optimal viewing in StarCellBio.

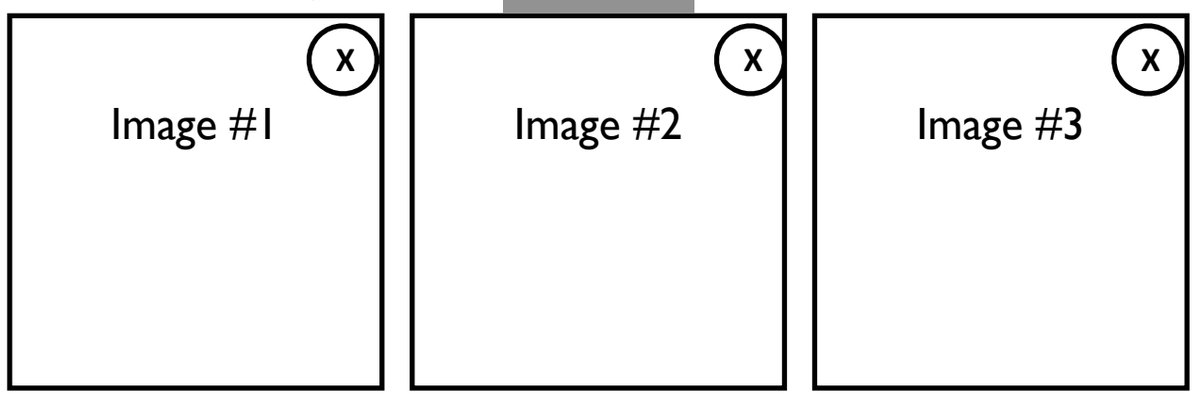
A. Dye/Stain, Dye/Stain Name

Sample **Apply to all**

1. Strain A, Treatment A, 100 ng/mL, 30 C **ADD MORE**



2. Strain A, Treatment A, 100 ng/mL, 37 C **ADD MORE**



3. Strain A, Treatment B, 200 ng/mL, 30 C

ADD IMAGE(S)

Notes:

If the instructor has selected many images for a particular sample, then we will need to show them all - either in rows/columns or by creating pages.

The instructor can delete an image by selecting the “x” in the upper right hand corner. If the instructor deletes all of the images, then the original selection buttons will appear.

The apply to all radio button doesn’t work for a sample until an image is selected for a sample.

BACK **SAVE AND CONTINUE**