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Experiment 1

ASSIGNMENTS > SCB Usability Test > DESIGN > SETUP > TECHNIQUES

1 DESIGN — 2 SETUP — 3 RUN — 4 SELECT TECHNIQUE — 5 PERFORM TECHNIQUE

Make 'Flow Cytometry' an active window

Available Western Blot:

W.B. Exp. 1
W.B. Exp. 2
W.B. Exp. 3

Reminder:
Western blotting detects overall changes in the amount or chemical modifications of a particular protein. Learn More

NEW WESTERN BLOT ▶

Available Flow Cytometry:

No available flow cytometry techniques.
Select **New Flow Cytometry** below.

Reminder:
Flow cytometry is used to count and analyze the size, shape and properties of individual cells within a heterogeneous population of cells. Learn More

NEW FLOW CYTOMETRY ▶

Available Microscopy:

Reminder:
Microscopy is used to study the shape, morphology and properties of cells, tissues or organisms that otherwise cannot be observed by eye. Learn More

NEW MICROSCOPY ▶

Remember to inactive all links and buttons in the microscopy window

◀ REVIEW SETUP

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Experiment 1

ASSIGNMENTS > SCB Usability Test > DESIGN > SETUP > TECHNIQUES > FLOW CYTOMETRY

F.C. 1 | F.C. 2 | F.C. 3 | ADD +

Flow cytometry steps:
1. Sample prep
2. Run
3. Analyze

Change to Trash icon, but this button should be opaque and shouldn't work. You should only be able to delete the samples from this page if you add more than one treatment per sample, which is not possible for this assignment.

<<< 5

PERFORM

1. Sample Prep | 2. Run | 3. Analyze

FLOW CYTOMETRY

Select	Samples	Cell treatment	DNA content treatment	
☐	Wild Type, Buffer only, 0 nM	○ Live ◉ Fixed	PI	X

SELECT ALL

Two types of cell treatments: live cells or fixed cells. Only fixed cells is an option for 7.06, so 'Live' should be opaque. Fixed should be selected.

Drop down menu of treatments, with PI being the only choice and the default for 7.06. Just like in the usability assignment, this drop down menu only becomes activated when a user selects the checkbox for the particular sample.

This window is a scrollable window. If there are more samples than can fit in this window, then you will scroll down to view them in this window.

Add 'CLEAR ALL' button, add a 2 px width green line separating samples from 'SELECT ALL' and 'CLEAR ALL' buttons. Make sure to change green outline as specified in Evernote.

CLEAR ALL

extend the window so that the bottom of the window is 20 px above the blue buttons.

◂ SELECT TECHNIQUE

PREPARE SAMPLES ▸

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Please note that there is no limit on the number of samples that can be prepared.

Button should read 'PREPARE SAMPLES'

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ASSIGNMENTS > SCB Usability Test > DESIGN > SETUP > TECHNIQUES > Western Blot

F.C. 1 | F.C. 2 | ADD +

<<< 5

PERFORM
FLOW CYTOMETRY

1. Sample Prep | 2. Run | 3. Analyze

Gel Type:10%

Delete 'Gel Type', move samples list up

Samples

1. Wild Type, Buffer only, 0 nM -Whole Cell
15. Marker

This will contain a list of all the samples that were prepared. This will be a scrollable window. The black box here shows the exact positioning of the Samples window.
Sample names should be formatted:
1. Wild type, Buffer only, 0 nM - PI

RUN SAMPLES

SAMPLE 1 - PI

When you first come to this page, this window will be opaque.

◂ SELECT TECHNIQUE

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PERFORM
FLOW CYTOMETRY

1. Sample Prep | 2. Run | 3. Analyze

Gel Type:10%

Delete 'Gel Type', move samples list up

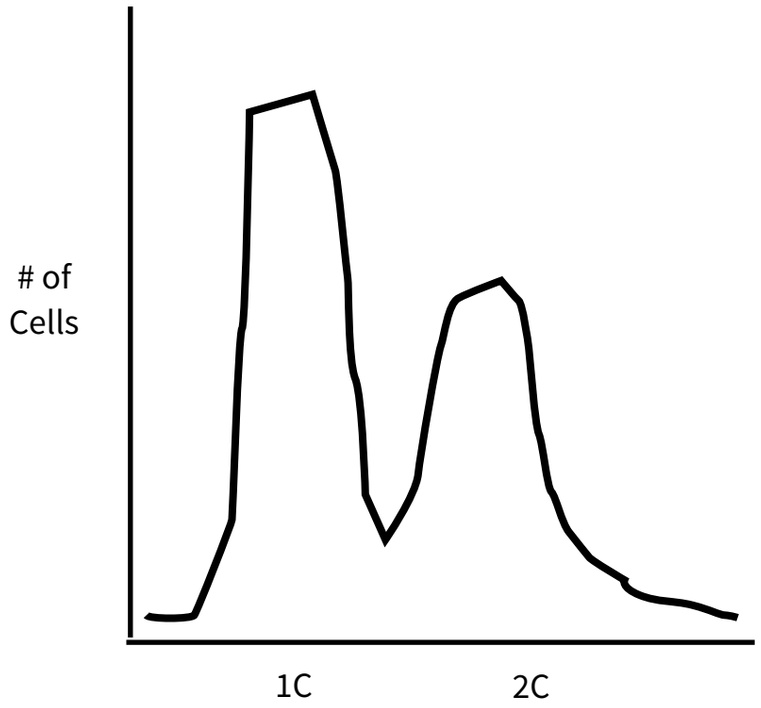
Samples

1. Wild Type, Buffer only, 0 nM -Whole Cell
15. Marker

Functionality: To view the results of each sample, select the sample in the samples window. The sample that is being viewed will be highlighted with a green box (same as in the experimental design section at the bottom of the home page). Once 'RUN SAMPLES' is selected, the results of the first sample in the list will automatically be shown and the sample name will be highlighted in green.

The label for this tab will change based on the sample that is being viewed. In the future, there will be a tab for each treatment of a particular sample. If there are more than 4 treatments per sample, then it will go to a drop down menu instead of tabs.

SAMPLE 1 - PI



Flow Cytometry Analysis

MEASURE PEAKS

There needs to be a tool to help measure the % of the population in 1C and 2C or alternatively in each peak if there is only one peak.

◄ SELECT TECHNIQUE

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F.C. 1 | F.C. 2 | ADD +

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PERFORM

FLOW CYTOMETRY

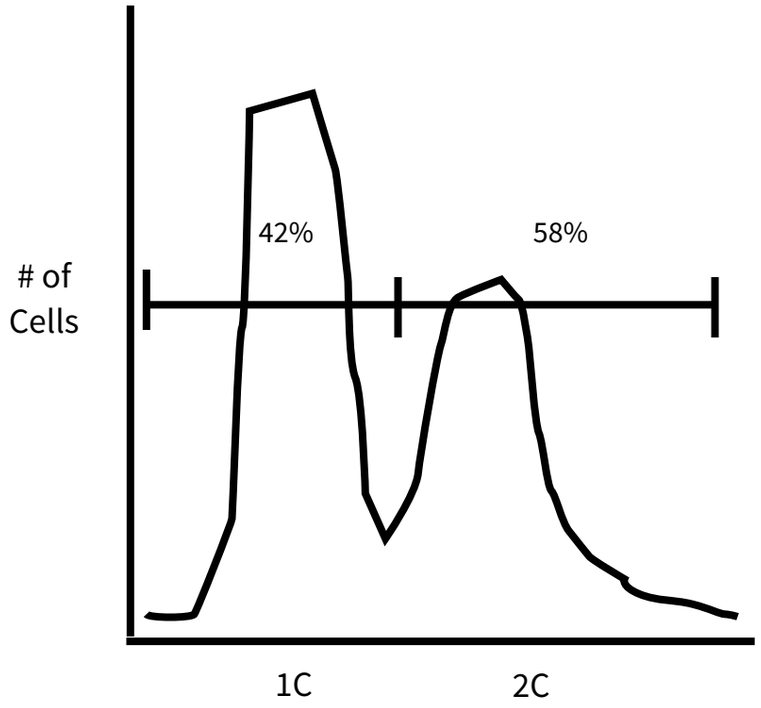
1. Sample Prep | 2. Run | 3. Analyze

Samples

1. Wild Type, Buffer only, 0 nM -Whole Cell
15. Marker

Functionality: To view the results of each sample, select the sample in the samples window. The sample that is being viewed will be highlighted with a green box (as in the experimental design section at the bottom of the home page). Once 'RUN SAMPLES' is selected, the results of the first sample in the list will automatically be shown and the sample name will be highlighted in green.

SAMPLE 1 - PI



Flow Cytometry Analysis

1C: 42%

2C: 58 %

SET ANALYSIS FOR THIS SAMPLE ONLY

SET ANALYSIS FOR ALL GRAPHS IN F.C. 1

EDIT ANALYSIS

We need to think through the analysis a little more once it's built.

◂ SELECT TECHNIQUE