

## SCB Exercise 1

**This assignment should be under "Try an Experiment" and in its own course too. The course code is 'SCB\_SampleExercises'.**

### **Assignments page**

*Small window on the left side*

- Change the name of the exercise in the Assignments window to "Exercise 1"
- Left align the name of the exercise in the assignments window (it's justified right now)
- Once the exercise name is shorter, make sure that the whole assignment name is highlighted in the gray bar and the white arrow is on the same line as the exercise
- Remove the Usability heading and the two usability exercises (StarCellBio Usability test and Microscopy Usability Test) in the assignments window (for Try an Experiment) and put them in a "Usability" course - this may already exist actually. Put the new exercises underneath a heading of "Sample Exercises"

*Assignment window on the right side*

- The font size of the assignment is smaller than in the other assignments
- The headings (welcome, introduction, etc) should be in blue, smaller font and bold - see other assignments (usability assignments)
- On the background information page, increase the width of the left column slightly so that all of the Strain names fit on one line.
- Format the tables in the background information section in a similar fashion for all assignments. They should be formatted as in other assignments (white background for the headings, green outline around the outside of the table, really faint gray lines in the table, etc.) but if have time (see section below).
- There should be a table in the microscopy section
- Format the 1,2 after "green channel" in the microscopy section as superscripts.
- In the questions page, separate out the parts of each question (a, b, etc) and bold the 'a)' - as in the other assignments.

### **Setup & Run**

(see other usability assignments for information on how the Setup page should be formatted)

- The button should read: "Add Samples" in all caps, not "Add multiple"
- The heading on the "Add Samples" window should read "Add Samples"
- The headings in the Add Samples table should be 'Cell line' and "Treatments". All of the samples should list "Growth Media" as their treatment.
- Remove the "Selected" heading
- Add a "SELECT ALL" button underneath the checkboxes (lower right corner)
- Move the Cancel and Add Samples buttons to the lower right corner
- The samples in the Add Samples window need to be listed in the same order as Lisa wrote them in the coding word document.
- Before any samples are selected, the table should not show three columns (Strain, Treatment, etc). It should have the headings row, which contains 'Cell line' and 'Treatments' and a blank first row in the table. Then it should have the "Add Samples" button which is separated from the rest of the table by a thicker horizontal green line.

- After samples are selected and added to the experiment, the table needs to be formatted as in the Add Samples window (white background in heading row, green outline around the table, etc)
- The table should extend across the width of the page.

### **Microscopy**

See the microscopy usability assignment for information on how the microscopy pages should be formatted.

#### *Prep*

- Once a sample is selected, the text in the Microscopy Analysis column should turn black.
- The text in the microscopy analysis column should say "Fluorescence" not "Antibody-labeling IF"
- The "Conditions" column should have a radio button that says 'GFP (green)'. This radio button should be automatically selected if a sample is selected.
- Prior to a sample being selected, the text in the 'Analysis' and 'Conditions' columns should be grayed out.
- BUG: The CLEAR ALL button is only clearing the selection of the first sample, not all of the samples.
- BUG: If I click "Select All" then manually remove some checkboxes, then click "Select all" again, the unchecked samples are not automatically checked.

#### *Load/Analyze*

- Only the cell line and treatment should appear in the sample name within the Samples window
- The heading in the tabbed window should read 'GFP (green)'
- For all images, the light should be disabled, the laser should be automatically on, and the laser filter should have "G" automatically selected
- The light on/off switch should be disabled from the beginning. When the first image loaded, the light button was in the "Off" position, not in the disabled mode. But once I changed the light switch option, then it became disabled.
- When the cursor is hovering over the image in the microscope lens, the cursor should be in the "hand" mode to indicate to students that they can click and drag the image into desired position.

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### **LOW PRIORITY CHANGES (IF HAVE TIME):**

#### **Assignments page**

##### *Assignment window on the right side*

- The questions should have a number in a circle to the left of each question instead of a heading that says "Question 1" etc.
- Format the tables in the background information section in a similar fashion for all assignments. They should be formatted as in other assignments (white background for the headings, green outline around the outside of the table, really faint gray lines in the table, etc.) but if have time (see section below).

### **Setup & Run**

- The Add samples window doesn't have to be as wide as it is. It would be great if the "Cell lines" column were closer to the checkboxes.