Information "i" and Help "?" icons

2/10/14

- **Bug: I can click on the icon even when they are opaque. They should be inactive in this case. (One example is on the western blotting page - samples, gel type, etc).**
- **Formatting note: remove the blue boxes that appear around the "?" and "i" icons**
- **Can you add a space in between the end of the text and the "Learn more>>" link?**
- **For icons on the right side of the StarCellBio window, the icons open a window that extends past the confines of the StarCellBio window. In this case, can the dialog window open within the StarCellBio browser window?**
- **For the "?" icons, can you add a hover state to the "x" in the upper right corner?**

Also note: I have a few notes for specific icons in the relevant section below.

INFORMATION "i" ICONS

The 'Learn more >>' text should appear in bold and green and link to the appropriate section in the reference library (links provided below).

Western Blotting Experimental Technique

1. Gel Type information

Location: western blotting experimental technique, prepare gel step

"i": Gel type refers to the percentage of acrylamide that is used to make the gel. Lower acrylamide concentrations are used to separate large proteins, while high acrylamide concentrations are used to separate small proteins. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#GelPreparation

This icon needs to be clickable while the user is still selecting what gel % to select

2. Marker

Location: western blotting experimental technique, 'Add Marker +' button on Step 3. Load Gel

"i": A protein marker or ladder consisting of multiple proteins of known sizes is loaded into one of the gel's wells that serves as a measurement tool against which you can measure the protein of interest. The protein marker usually consists of wide range of protein sizes, ranging from 10-250 kilodaltons (kDa). Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#LoadGel

This icon looks like it is floating a little bit. Can you move this closer to the "Add Marker +" link?

3. Primary Antibody

Location: western blotting experimental technique, Step 6. Blot
Only display the "i" icon when the Primary Antibody drop down menu is apparent.

"i": A primary antibody is a Y-shaped protein that is designed to bind specifically to the protein of interest. A primary antibody called "rabbit protein-X" was raised in a rabbit to specifically detect protein X. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#Blot

Don't need to show this icon at Step 7: Develop

4. Secondary Antibody
Location: western blotting experimental technique, Step 6. Blot
Only display the "i" icon when the Secondary Antibody drop down menu is apparent.

"i": A secondary antibody is a Y-shaped protein that is designed to bind specifically to the primary antibody. A secondary antibody called "goat anti-rabbit" was raised in a goat to detect a rabbit's primary antibody. When selecting a secondary antibody, ensure that the secondary antibody recognizes the species in which a primary antibody was raised. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#Blot

Don't need to show this icon at Step 7: Develop

5. Exposure time slider
Location: western blotting experimental technique, Step 7. Blot

"i": The exposure slider represents the length of time a piece of film is exposed on a blot to detect a protein of interest. To increase the exposure time, move the slider to the right. To decrease the exposure time, move the slider to the left. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#Develop

Flow Cytometry Experimental Technique

1. DNA Content Treatment
Location: Sample Prep page of flow cytometry experimental technique

"i": DNA content treatment is used to measure and analyze a cell's amount of DNA. Propidium Iodide (PI) is a fluorescent dye that binds, or intercalates, DNA. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#FCSamplePreparation

2. Cell Treatment
Location: Sample Prep page of flow cytometry experimental technique

"i": Depending on the type of flow cytometry analysis, the researcher will either use live or fixed (dead) cells. One example of an analysis that is performed on live cells is to analyze cell viability within a sample. Some analyses are performed on fixed cells to enable the dye or other reagents to enter the cells within a sample. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#FCSamplePreparation

3. Flow Cytometry Histogram
Location: flow cytometry experimental technique, Step 3. Analyze
Place the "i" in the lower right corner of the histogram side of the small tabbed window

"i": The histogram displays the number of cells (Y-axis) for each particular fluorescent emission level of Propidium Iodide (PI) (X-axis) of each cell within the sample. Learn more >>
Learn more link: https://starcellbio.mit.edu/static/ref_lib/full_library.html#FCAnalyze

Microscopy Experimental Technique

Note: We don't have learn more links as I need to develop the reference library for the microscopy technique

1. Slide Type
Location: Slide Prep page of microscopy experimental technique. To the right of "Slide type" in the menu bar

"i": Antibody-labeling Immunohistochemistry (IHC) uses a series of antibodies to specifically detect a protein of interest using a colorimetric reaction. Antibody-labeling Immunofluorescence (IF) uses a series

of antibodies, including a fluorescently-labeled secondary antibody, to specifically detect the protein(s) of interest. Learn more >>
Learn more link: TBD

2. Conditions
Location: Slide Prep page of microscopy experimental technique. To the right of "Conditions" in the menu bar

DO WE NEED ONE HERE??

"i": Learn more >>
Learn more link: TBD

Let's remove this "i" icon until we have something to write in here.

3. Microscope controls - convert the "i" icon to a "?" icon (see below)

HELP "?" ICONS

Current bug: If the user does not close the help window for the flow cytometry analysis tools and then goes to a new flow cytometry exp. technique tab, the help window will still appear on this page (even when the user still needs to run the samples). Done

Western Blotting Experimental Technique

1. Samples
Location: western blotting experimental technique, re-ordering samples on Step 3. Load Gel

Note: can you use the actual images of the up and down arrows within this help window? If you want, sure. Where do you want me to put them?
I put in blue text below to show where to put them.

"?": To re-order the samples, either (1) click and drag the samples or (2) select a sample and use the **(insert picture of arrows here)** up and down arrows to move the samples into the desired order.

2. Protein Measurement Tool
Location: western blotting experimental technique, Step 7. Develop

Note: place the "?" icon at the bottom right of the blot?
Let's move this icon to the upper right corner of the blot

"?": To measure the size of the proteins within a band on a western blot, hover your cursor over the band of interest on the blot. Vertical and horizontal red lines will appear and the size of the protein will be displayed in the red box to the right of the blot.

Flow Cytometry Experimental Technique

1. Analysis Tools (Rename this to 'Analysis Tool')
Location: flow cytometry experimental technique, Step 3. Analyze

"?": Change the instructions for the flow cytometry analysis tool "?" icon (please enter the histogram icon where I have diagrammed it):

Select the (|--|) histogram icon. Click and drag your cursor within the histogram to draw a segment. The % of cells within the segment will be calculated.

Repeat to add another segment. Then, select **Apply to All** to apply the analysis parameters to all samples.

I'm concerned about the wording of this note. Select and click are similar and since the word histogram is used twice, it can be confusing which is which.

Ok let's try:
Click the (|--|) gate icon then click and drag your cursor within the graph to draw a gate. The % of cells within the gate will be calculated.

Repeat to add another segment. Then, check Apply to All to apply the analysis parameters to all samples.

2. Samples
Location: flow cytometry experimental technique, Step 3. Analyze
Place the "?" icon to the right of "Samples" only after a user has clicked "RUN"

"?": To display the flow cytometry data for a sample, select the sample name from the list below.

Microscopy Experimental Technique

1. Samples
Location: microscopy experimental technique, Step 3. Analyze Slides
Place the "?" icon to the right of "Samples" only after a user has clicked "LOAD SLIDES"

"?": To view the sample on the microscope, select the sample name from the Samples window. Then at the right, select the tab that represents the appropriate type of microscopy analysis.

2. Navigation Arrows
Location: microscopy experimental technique, Step 3. Analyze Slides
Place the "?" icon to the right of the navigation arrows

"?": Click the appropriate the navigation arrows or use the arrows on your computer to move the microscope lens across the image.

Let's delete this "?" icon and put this message in the "?" icon that appears next to "Microscope Controls" (#3 below)

3. Microscope controls
Should we specifically mention something? I feel like these controls are pretty intuitive. What do you think?

"?": For more information about manipulating the microscope controls, see the user guide.
User Guide link: TBD
Not sure what to do with this...

Let's put the message from the "?" icon that appears currently in the Navigation Arrows "?" icon in this icon. Do you think other instructions need to go in this "?" icon?