

## 1st tester

### Info:

- 4th year
- TA for 7.06
- Mike Hemman's Lab

### Signing in:

Creating account --> case sensitive

Creating an account confirm message is wrong --> it shows that you have created an account and have been confirmed even if the course password is wrong.

### Assignments page:

Rename "Reference Library" to = Biology Library (?) to avoid confusion with the "Reference Material"

"Reference Material" needs to be in its own section within the Assignment's page.

If "Reference Material" is mentioned some place else in the program, create a hyperlink within the assignment content that links back to the "Reference Material" .

### Reference Library:

Images needed --> which we know

Hyperlinks to PubMed for each of the references noted.

### User Guide:

Back button

Home button is confusing since it could be the page's home page --> change this to something else

### Design Experiment page:

The select technique color change is not very obvious --> make sure it is

### Flow Cytometry set up page:

Bug: Make sure that if you click on the Flow Cytometry button, it does not automatically create a new tab

### Flow Cytometry Analyze Data page:

Be able to overlap the graphs --> label with different colors (FUTURE)

### Western Blot:

Have students load the actual samples themselves in addition to the marker --> "Add marker" + "Load All" button

### Notes:

Navigation:

- Might be confused about the individual buttons being able to take you back to other pages.
- Might not understand the difference between Technique and Experiment?
- Does not know where the button for Contact is?

#### Design page:

- Should be required to be filled in

#### What she likes:

- Likes the realistic way that the data is presented (similar to the lab)
- Likes the way you can go back and forth between the different experiments you are doing
- Being able to change the order of the samples in Western Blot

#### Things to change:

- More information about the antibodies that they are using in Western Blotting page
- Ability to overlap

She was surprised that there was so little information about the techniques that they were actually learning in class without a lab. It is the TA's job to actually explain all of this in recitation and bring data and examples to explain further. This will be a good addition to the course --> would provide examples and a more systematic way to answer problem set questions.

## 2nd Tester

#### **Info:**

- Has not TAed for 7.06
- 3rd year
- Has done lots of western blots and some flow cytometry

#### **Sign up page:**

Need to add within the Sign-in page a message to communicate that once they sign-in, all of their experiments are saved even if they sign out.

#### **Assignment:**

Provide a forward arrow until you get to the actual questions --> then provide a "New Experiment" button for each question.

Should remember where you last were on the screen

Perhaps consider opening a new page for the Experiment button so that they can easily have the Assignment and Experiment in different pages.

Make a "print" assignment button.

#### **Experiment set up:**

Covert the bottom button at the bottom of the multiple to just "Add"

Clarify the "Confirm Set-up" message to make sure that they know that they can try doing this experiment multiple times

Make the New Experiment button more prominent

### Flow Cytometry Set-up page:

Make "Select All" button more distinct, maybe green?

Radial buttons do not look like radial buttons --> need to be white with the center be round green

### Flow Cytometry Run page:

Add a little "i" icon for information on what "Run Samples" mean

### Flow Cytometry Analyze page:

Change the analyze instructions to something more intuitive. Maybe something like this:

<http://docs.flowjo.com/vx/graphs-and-gating/gw-gating/gw-gatedrawing/>

Remove the jumping up and down of the analyze tool whenever you switch between examples

Case inconsistency for "Apply all" between instructions and button.

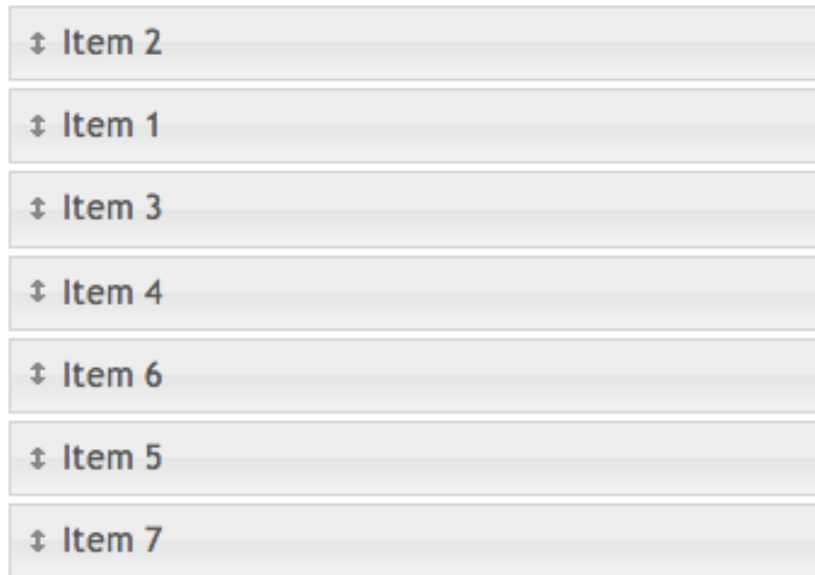
### Western blot run:

Load samples button needed

Need to make the fact that the samples are re-organizable more obvious --> look at Netflix as a good example:

The screenshot shows the 'Your Queue' page on Netflix. At the top, there's a header 'Your Queue' and a note: 'Though you are able to add DVDs to your queue, your account does not currently allow for movies to be shipped to you.' Below this, there are tabs for 'DVD (242)' and 'Instant (42)'. A 'Questions? Visit our FAQ section' link is also present. On the right, there's a 'Show all DVD activity' link. The main content area shows a list of movies in the queue, with a 'DVD (237)' tab selected. The list includes columns for 'List Order', 'Movie Title', 'Instant', 'Star Rating', 'Genre', 'Expected Availability', and 'Remove'. The movies listed are: Queen Margot, Time Out, The Quiet Family, The Dinner Game, American Psycho, Motives, Following, Clueless, Red Dragon, Changing Lanes, Freeway, In the Company of Men, Sexy Beast, and Five Days to Midnight: Disc 1. The 'Instant' column shows a 'Play' button for 'In the Company of Men'. The 'Star Rating' column shows star ratings for each movie. The 'Genre' column shows the genre for each movie. The 'Expected Availability' column shows 'Now' for all movies. The 'Remove' column shows a blue 'X' icon for each movie.

List Order	Movie Title	Instant	Star Rating	Genre	Expected Availability	Remove
1	<a href="#">Queen Margot</a>		★★★★★	<a href="#">Foreign</a>	Now	X
2	<a href="#">Time Out</a>		★★★★★	<a href="#">Foreign</a>	Now	X
3	<a href="#">The Quiet Family</a>		★★★★★	<a href="#">Foreign</a>	Now	X
4	<a href="#">The Dinner Game</a>		★★★★★	<a href="#">Foreign</a>	Now	X
5	<a href="#">American Psycho</a>		★★★★★	<a href="#">Thrillers</a>	Now	X
6	<a href="#">Motives</a>		★★★★★	<a href="#">Thrillers</a>	Now	X
7	<a href="#">Following</a>		★★★★★	<a href="#">Thrillers</a>	Now	X
8	<a href="#">Clueless</a>		★★★★★	<a href="#">Comedy</a>	Now	X
9	<a href="#">Red Dragon</a>		★★★★★	<a href="#">Thrillers</a>	Now	X
10	<a href="#">Changing Lanes</a>		★★★★★	<a href="#">Thrillers</a>	Now	X
11	<a href="#">Freeway</a>		★★★★★	<a href="#">Drama</a>	Now	X
12	<a href="#">In the Company of Men</a>	Play	★★★★★	<a href="#">Independent</a>	Now	X
13	<a href="#">Sexy Beast</a>		★★★★★	<a href="#">Thrillers</a>	Now	X
14	<a href="#">Five Days to Midnight: Disc 1</a>		★★★★★	<a href="#">Thrillers</a>	Now	X



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Need to be able to reorder the marker

Bug: Deleting western blot tabs sometimes takes you to the Select Techniques page

**Notes:**

Assignment:

Not clear that the material for the assignment is divided into these different tabs on the top --> provide

Design experiment page:

Want to start up doing the experiment right away --> confused why she needs to do this.

Experiment set up:

Think about the experimental technique is confusing --> perhaps consider changing.

General comments:

- Students need to figure out the biology of the experiments
- Would like for the students to be able to actively choose
- First few times it took a little to get used to the navigation --> could be just needing to get familiar with the UI like you would for a regular website.

- Really wanted to have something to submit or to tell her that she was done.

## 3rd Tester

### Info:

- 4th
- 7.03 TA (that is where we know him from) and current 7.06 TA
- A lot of flow cytometry
- Has done western blots in the past (not currently)

### Design page:

Give more characters for the experiment name

### Experimental Design page:

Have the ability to delete an experiment

### Flow Cytometry Analyze page:

Need to have a better way to make it obvious that you can create multiple gates

### Western Blot Gel Loading page:

Need's a way to be able to reorder items

### User guide:

Bug: could not go back to home page

### Other:

Change the name of "Support" to "Funding"

Make it clear how you submit your answers

### Notes:

#### Reference Library

- Seems like a read me file, but a nice resource --> daunting for a student to have to read this.

#### General comments:

- Creates a separate experiment for the western blot sub-experiment even though you could have used the
- Interface is nice and I like it
- Flow cytometry data looks pretty good
- Likes the set-up page
- Wants to annotate experiments as he goes along
- Western blot is really nice
- It is pretty and user friendly
- Nice that they are doing small details to illustrate the process (not a substitute for the lab)

What he would change:

- Doing all of the steps --> would this be a tedious process?